

Central Portal for Philippine Government Procurement Oppurtunities

Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number

12183583

Procuring Entity

CARLOS HILADO MEMORIAL STATE UNIVERSITY

Title

Procurement of Turn-Key Project: Hyperconverged Infrastructure, Firewall and Switches for

Centralized Network of the University

bac.sec@chmsu.edu.ph

Area of Delivery

Negros Occidental

Solicitation Number:	CHMSU 25-013-0702-G	Status	Pending
Trade Agreement:	Implementing Rules and Regulations		
Procurement Mode:	Public Bidding	Associated Components	8
Classification:	Goods		
Category:	Information Technology	Bid Supplements	0
Approved Budget for the Contract:	PHP 15,000,000.00		
Delivery Period:	120 Day/s	Document Request List	0
Client Agency:			
		Date Published	03/07/2025
Contact Person:	Rowena De la Vida Prado Administrative Assistant II		
	Mabini Street Talisay City Negros Occidental	Last Updated / Time	02/07/2025 16:46 PM
	Philippines 6115 63-34-7120005 Ext.142 63-939-9296624	Closing Date / Time	24/07/2025 09:00 AM

Description

CARLOS HILADO MEMORIAL STATE UNIVERSITY BIDS AND AWARDS COMMITTEE TALISAY CITY, NEGROS OCCIDENTAL

INVITATION TO BID

FOR THE PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY CHMSU 25-013-0702-G

1. The Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2025 approved by the governing Board (STF/CO), intends to apply the sum of FIFTEEN MILLION PESOS & 00/100 (Php 15,000,000.00) ONLY being the Approved Budget for the Contract (ABC) to payments under the contract for the PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGE INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY. Bids received in excess of the ABC shall be automatically rejected at bid opening.

ONE (1) LOT HYPERCONVERGED INFRASTRUCTURE, FIREWALL & SWITCHES FOR CENTRALIZED NETWORK Php 15,000,000.00

2. The Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Delivery of the Services is required by One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed. Bidders should have completed, within two (2) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

3. Bidding will be conducted through open competitive bidding procedures using the non-discretionary pass/fail criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Prospective bidders may obtain further information from CARLOS HILADO MEMORIAL STATE UNIVERSITY and inspect the Bidding Documents at the address given below during 8:00 A.M. to 5:00 P.M.

The BAC Secretariat Brgy. Zone I, Mabini St., Tallsay City, Negros Occidental

- 5. A complete set of Bidding Documents may be acquired by interested Bidders on July 3 July 24, 2025 (9:00A.M.) from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty-Five Thousand Pesos (Php 25,000.00) Only. The Procuring Entity shall allow the bidder to present its proof of payment for the fees.
- 6. The CHMSU will hold a Pre-Bid conference on 9:30 A.M., July 10, 2025 at Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 540 036 7488, Meeting Password 071025, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the Bidding Room, 2/F Supply and Property Management Bidg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental, (ii) online or electronic submission at bac.sec@chmsu.edu.ph or (iii) both on or before 9:00 A.M., July 24, 2025. Late bids shall not be accepted.

Bids may be submitted through electronic mail to bac.sec@chmsu.edu.ph provided that the bidding documents are compressed into two (2) separate archived folders (zip or rar format) and which each folder shall be labelled as "First Envelope_Name of Company_Project Reference Number" and "Second Envelope_Name of Company_Project Reference Number" and each is uniquely password-protected;

Bidders must submit the printed copies (Original, Copy 1 and Copy 2) of their bidding documents within 3 calendar days from bid opening.

- 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
- 9. Bld opening shall be on 09:30 A.M., July 24, 2025, at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental through Zoom Meeting ID No. 540 036 7488, Meeting Password 072425. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The Carlos Hilado Memorial State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

MS. LIGAYA E. FUENTES
Head-BAC Secretariat
Carlos Hilado Memorial State University
Brgy. Zone 1, Mabini St.,
Talisay City, Negros Occidental
Email Add.: bac.sec@chmsu.edu.ph

Telephone Nos.: (034) 454-0529; 454-0584 local 142

Mobile No.: 0939-9296624 Website: chmsu.edu.ph

12. You may visit the following websites:

For downloading of Bidding Documents: chmsu.edu.ph

For online bid submission: bac.sec@chmsu.edu.ph

ANDREW EUSEBIO S. TAN, Ph.D. BAC Chairperson Line Items

Item No.

Product/Service Name

Description

Quantity UOM Budget (PHP)

4	7	printa	DieBidNoticeAbstract			
1	ONE (1) LOT	Turn-Key Project: Hyperconverged Infrastructure, Firewall and Switches for Centralized Network		1	Lot	15,000,000.00
Pre-bid Conf	erence					
		Time		V		
10/07/2025		9:30:00 AM	Managemen St., Talisay (t Bldg., City, Neg to confe teting w	Brgy, Z gros Oce rencing with ID N	and Property one 1, Mabini cidental and or or webcasting No. 540 036

Created by Rowena De la Vida Prado

Date Created 02/07/2025

The PhilGEPS team is not responsible for any typographical errors or misinformation presented in the system. PhilGEPS only displays information provided for by its clients, and any queries regarding the postings should be directed to the contact person/s of the concerned party.

© 2004-2025 DBM Procurement Service. All rights reserved.

Help | Contact Us | Sitemap



Carlos Hilado Memorial State University Management Office

Alijis Campus · Binalbagan Campus · Fortune Towne Campus · Talisay (Main) Campus ECELVED

A leading GREEN institution of higher learning in the global community by 2030

006651

MATJUL 0 2 2025

Php 15.000.000.00

11'74

Bids and Awards Committee

INVITATION TO BID FOR THE PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED RELEASED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY CHMSU 25-013-0702-G

The Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2025 approved by the governing Board (STF/CO), intends to apply the sum of FIFTEEN MILLION PESOS & 00/100 (Php 15,000,000.00) ONLY being the Approved Budget for the Contract (ABC) to payments under the contract for the PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGE INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY. Bids received in excess of the ABC shall be

ONE (1) LOT HYPERCONVERGED INFRASTRUCTURE.

FIREWALL & SWITCHES FOR CENTRALIZED
NETWORK

2. The Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Delivery of the Services is required by One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed. Bidders should have completed, within two (2) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

 Bidding will be conducted through open competitive bidding procedures using the non-discretionary pass/fail criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183

 Prospective bidders may obtain further information from CARLOS HILADO MEMORIAL STATE UNIVERSITY and inspect the Bidding Documents at the address given below during 8:00 A.M. to 5:00 P.M.

> The BAC Secretariat Brgy. Zone I, Mabini St., Talisay City, Negros Occidental

automatically rejected at bid opening.

- 5. A complete set of Bidding Documents may be acquired by interested Bidders on July 3 July 24, 2025 (9:00A.M.) from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty-Five Thousand Pesos (Php 25,000.00) Only. The Procuring Entity shall allow the bidder to present its proof of payment for the fees.
- 6. The CHMSU will hold a Pre-Bid conference on 9:30 A.M., July 10, 2025 at Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 540 036 7488, Meeting Password 071025, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental, (ii) online or electronic submission at bac.sec@chmsu.edu.ph or (iii) both on or before 9:00 A.M., July 24, 2025. Late bids shall not be accepted.



M bac.sec@chmsc.edu.ph

(034) 712 0005 local 142

chmsc.edu.ph

GREEN

CHIVISU EXCELSIOR!

COMMISSION ON AUDIT

Excellence · Compassion · Environmentalism ·

DATE: JUL 0 2 2025

OF THE AUDITOR



Alijis Campus • Binalbagan Campus • Fortune Towne Campus • Talisay (Main) Campus A leading GREEN institution of higher learning in the global community by 2030

Bids and Awards Committee

Bids may be submitted through electronic mail to bac.sec@chmsu.edu.ph provided that the bidding documents are compressed into two (2) separate archived folders (zip or rar format) and which each folder shall be labelled as "First Envelope_Name of Company_Project Reference Number" and "Second Envelope_Name of Company_Project Reference Number" and each is uniquely password-protected;

Bidders must submit the printed copies (Original, Copy 1 and Copy 2) of their bidding documents within 3 calendar days from bid opening.

- 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
- Bid opening shall be on 09:30 A.M., July 24, 2025, at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental through Zoom Meeting ID No. 540 036 7488, Meeting Password 072425. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The Carlos Hilado Memorial State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

MS. LIGAYA E. FUENTES
Head-BAC Secretariat
Carlos Hilado Memorial State University
Brgy. Zone 1, Mabini St.,
Talisay City, Negros Occidental
Email Add.: bac.sec@chmsu.edu.ph

Telephone Nos.: (034) 454-0529; 454-0584 local 142

Mobile No.: 0939-9296624 Website: chmsu.edu.ph

12. You may visit the following websites:

For downloading of Bidding Documents: chmsu.edu.ph

For online bid submission: bac.sec@chmsu.edu.ph

NDREW EUSEBIO S. TAN, Ph.D. BAC Chairperson











Alijis Campus · Binalbagan Campus · Fortune Towne Campus · Talisay (Main) Campus

A leading GREEN institution of higher learning in the global community by 2030

(Good governance, Research-oriented, Extension-driven, Education for Sustainable Development, and Nation-building)

Information and Communication Technology Office

TERMS OF REFERENCE (TOR)

Procurement of Turn-key Project: Hyperconverge Infrastructure, Firewall and Switches for Centralized Network of the University

1. Project Overview

The Carlos Hilado Memorial State University (CHMSU) seeks to centralize its network infrastructure by procuring and implementing a turnkey solution comprising Hyperconverged Infrastructure (HCI), firewalls, and network switches. The project aims to enhance network performance, scalability, security, and management across all campuses.

2. Project Objectives

- Deliver and install all specified hardware, software, and accessories as per the Purchase Request.
- Ensure full integration, configuration, and operational readiness of all systems.
- Provide comprehensive user and administrator training.
- Establish local support and maintenance mechanisms for at least two years posthandover

3. Scope of Work

- Supply, delivery, installation, configuration, and commissioning of HCl, firewalls, and switches as specified in the Purchase Request.
- Integration of all components into a unified, secure, and centrally managed network.
- Migration of existing services and data as required.
- Provision of comprehensive documentation, including network designs, diagrams, configuration guides, and warranty/support details, signed by PECE.
- Conduct user and administrator training for relevant staff and users.
- Ensure compliance with data privacy and security standards throughout installation and configuration.

4. Technical Requirements

- All equipment must meet or exceed the technical specifications in the attached Bill of Materials, including but not limited to: Performance, redundancy, and scalability requirements for HCI and networking hardware
- Compatibility with existing and future infrastructure
- Compliance with industry standards (e.g., IEEE, CE, UL, RoHS), Environmental and operational standards (temperature, humidity, etc.)

5. Warranty and Support:

- · User and administrator training for relevant staff
- Documentation, including network designs/ diagrams, configuration guides, and warranty/support details, signed by PECE
- Providing a minimum of two (2) years warranty for all hardware and software.



ictoffice@chmsc.edu.ph



chmsc.edu.ph





Alijis Campus · Binalbagan Campus · Fortune Towne Campus · Talisay (Main) Campus

A leading GREEN institution of higher learning in the global community by 2030 (Good governance, Research-oriented, Extension-driven, Education for Sustainable Development, and Nation-building)

Information and Communication Technology Office

- Providing technical support and maintenance services for the duration of the warranty period.
- A Service Help Desk available 24/7 for 2 years
- Local Branch office in Bacolod or Talisay City
- An SLA of 4-hour response time for repairs and support
- Phone Response/Email: Within 60 mins, Mondays-Saturdays
- Technical Response Time: Within 4 Hours, Monday to Sunday
- Restoration: Within 12 Hours, Monday to Sunday
- Resolution: Within 48 Hours, Monday to Sunday
- Troubleshooting: Monday to Sunday

5. Vendor Eligibility:

- PCAB Certificate with Communications Facilities Specialty
- Authorized Manufacturer Partner
- Service Provider Certificate from the Manufacturer
- Integrator Certificate from the Manufacturer
- Network design signed by PECE
- Certified Project Manager to handle the overall implementation
- Certified ECE-Project Engineer to handle day-to-day implementation
- Quality Assurance to ensure compliance with RA9292 standards
- Certified Network Engineer to perform configurations
- The vendor should have a troubleshooting dispatch team for repairs & support 24/7
- Vendor should have Helpdesk Ticketing with 24/7 online support
- Local Office in Negros Occidental

6. Delivery Schedule

- Implementation Timeline: Delivery, installation, and Commissioning must be completed within 120 days from
- receipt of Notice to Proceed
- Provide a detailed S-Curve
- Provide a detailed Project Charter
- Deliverables: Required documentations, complete delivery of all hardware, software, and accessories as per the Bill of Materials, Installation, configuration, and integration of all systems







Section VI. Schedules of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

ltem	Description	Quantity	Total	Delivered,
#				Weeks/Months
	ONE (1) LOT			
1	Hyperconverged Infrastructure - Compute	1	11	
	Hyperconverged with Software Defined Major Line			
	Bundle & Perpetual SW License Fabric Interconnect			
	Compute Hyperconverged Fabric Interconnect supports			
	I/O consolidation with end-to-end network			
	virtualization, visibility, and QoS guarantees for the	i		
	following LAN and SAN traffic 2 units			
	 FC SAN, IP Storage (iSCSI, NFS), NVMEoF (NVMe/FC, 		,	
	NVMe/TCP, NVMe over ROCEv2)			
	Server management and LAN traffic			
	UCS Manager and Intersight Managed			
	Mode - 2units			
	UCS Power Supply/AC 1100W PSU -			
	Port Side Exhaust - 4 units			
	Power Cord Jumper, C13-C14 Connectors,			
	2 Meter Length - 4 units			
	10GBASE-SR SFP Module, Enterprise-Class - 4 units			<u> </u>
	OSFP to SFP10G adapter - 4 units			
	100GBASE-CR4 Passive Copper Cable, 3m - 6 units			
	Intersight SaaS intelligent visualization, optimization,			
	orchestration to bring your teams, tools,			
	infrastructure and apps together - 1 unit			
	Smart Net Total Care (SNTC) service contract for			
	· · · · · · · · · · · · · · · · · · ·			
	Compute Hyperconverged Fabric Interconnect-2 units			
	Compute Hyperconverged M7 All Flash Node			
	pre-configured UCS servers that are ready to be			
	deployed as nodes to form clusters in a variety of configurations. Each server appliance contains three			<u> </u>
	software layers: UCS server firmware, hypervisor,			
				
<u> </u>	and hyperconverged storage software - 3 units			<u> </u>
	■ Up to 10 front SFF SAS/SATA SSDs		······	
	■ One to three half-height PCIe risers or one to two full-			
	height PCIe risers			
	■ M7 12G SAS HBA for (16 Drives)			
	■ 480GB M.2 SATA SSD x 2			
	■ Boot optimized M.2 Raid controller x 2			
	■ Ball Bearing Rail Kit for C220 & C240 M7/M8 rack servers x 2			
	■ TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers x 2			
	■ HCI AOS AHV 6.8 SW			
	■ UCS M7 Heatsink for & C240 GPU Heatsink			
	■ 1200W Titanium power supply for C-Series Servers x 2			
	■ Power Cord Jumper, C13-C14 Connectors,			
	2 Meter Length x 2			
	■ 1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD x 3			
	■ 32GB DDR5-4800 RDIMM 1Rx4 (16Gb) x 4			
	■ Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s			
	Cluster Deployment and Expansion - Starter -			
	- Base 1 + 3 Var 1 unit			
	Starter SW LIC & Production SW Support for 36 core			
	Entitlement ONLY Cloud Infrastructure SW 1			
	License Software 2YRS 1			
2	Network Switches and Firewall for Talisay Campus	1	1	
	100% Cloud-Managed Security Appliance			
	Firewall - 1 unit			
	Maximum NAT Firewall Throughput: 10Gbps			
	Maximum NGFW Throughput: 7.5 Gbps			
	Maximum Site to site VPN: 4.5 Gbps			1
	American de la companya de la compan	<u>-</u>		<u> </u>

	hroughput : 7 Gbps			
Campus or VPN cor	centrator with up to 10,000 users			
Wan : 2x SFP+ / 10	Gigabit Ethernet ports for WAN Uplink			
	, 8× GbE SFP, 8× 10 GbE SFP+			
	J45 Management Interface			
Physical Features :				
Mount Type : Rack	mount - 111			
	:Modular 100-220V 50/60Hz AC			-
2 x 250WAC PSU	140dulai 100-2204 30/00/12 AC			
	1405111 / 40011/			
Power load (idle/ma				
	ure: 32°F to 104°F			
0°C to 40°C				
Humidity 5% to 95	%			
Cloud-Managed I	Network Switch - 24-port - 2 units			
Unified Access Data	Plane 2.0 Application-Specific			
Integrated Circuit				
Layer-3				
	r uplink options on all models			
mGig support	i upinik opaono on an modelo			
	G Hardware Stacking Port			
	t) & IEEE 802.3bt type3		. ,	
	g topology supporting up to 4 switches			
	(IPFIX) and Encrypted Traffic Analytics			
	n via Adaptive Policy (Security Group Tags)			
	1000 Ethernet ports (Gigabit Ethernet)			
	Capabilities: 802.1p Quality of Service,			
	figurable for DSCP-to-CoS mapping)			
	802.1s Multiple Spanning Tree Protocol			
(interoperability w	th RSTP, STP, PVST, RPVST)			
STP Enhancements	: BPDU guard, Root guard, Loop guard,			
UDLD				
Broadcast storm co	ntrol			
-	Discovery Protocol (LLDP) and			
discovery Protocol				
1802 3ad Link aggre	gation with up to 8 ports per aggregate,			
	lates supported on stacked switches			
	lates supported on stacked switches			
Port mirroring				
IGMP snooping for				
MAC Forwarding Er				
	stack up to 8 switches with 480 Gbps of			
stacking bandwidth				
	ports thousands of switch ports in a single			
	fied management, monitoring, and			
configuration		•		
Faster convergence				
StackPower in a rin	g topology supporting upto 4 switches			
Mount Type: 1RU			-	
	cifications: Operating Temperature: 32°F			
to 104°F (0°C to 40				
	to 158°F (-40°C to 70°C)			
Cloud-Managed !	Network Switch License Advance -	· · · · · · · · · · · · · · · · · · ·		
24-port - 2YEAF				
	k Module - 2 units			
8 x 10 Gigabit Ethe				
	d connections for devices and servers			
	hernet speeds. These ports are ideal for			
	rity, high-performance data center			
	gh-demand aggregation.			
	ypes: These ports can support various			
	, including SFP+ (small form-factor			
pluggable plus) tra	nsceivers for fiber-optic cables,			
offering flexibility in				
	ach of the 8 ports can deliver up to 10			
	offering sufficient capacity for high-speed			
				1
	n modern enterprise networks.			

Cloud Management: The module works within the ecosystem,		
allowing it to be managed through a cloud-based dashboard,		
which simplifies setup, monitoring, and troubleshooting		
across the network.		
Redundancy and Reliability:		
Zero-Touch Provisioning: Simplifies deployment by		
automatically configuring the module via cloud management		
platform.		
Advanced QoS and Traffic Management: Supports quality of		
service (QoS) features for traffic prioritization and bandwidth		
management.		
Operating Temperature: Typically operates in the range of		
32°F to 104°F (0°C to 40°C)		
Storage Temperature: Typically between -13°F to 158°F		
(25°C to 70°C).		
Humidity: The module is designed to function in environments		
with a relative humidity range of 10% to 85%, non-condensing.		
50CM Type 1 Stacking Cable-Network 2 units		
Cable Length: 50 cm (0.5 meters): Provides the ideal length		
for connecting stacked devices that are positioned in close		
proximity to each other.	· · · · · · · · · · · · · · · · ·	
Type 1 Stacking Cable: This cable type is specifically		
designed for interconnecting devices in a stack configuration,		
supporting high-speed data transfer between multiple switches.		
Plug-and-Play: The cable is easy to install and configure,		
requiring no additional setup or software for basic		
connectivity between stacked devices.		
Operating Temperature: Typically operates in environments		
with temperatures ranging from 32°F to 104°F (0°C to 40°C).	****	
Storage Temperature: Designed to be stored in temperatures		
 		
between -13°F to 158°F (-25°C to 70°C).		
Humidity: Suitable for environments with a relative humidity		
range of 10% to 85%, non-condensing.		
Stack Power Cable 30 CM - 2 units		
Cable Length: 30 cm (0.3 meters): A compact length that is		
ideal for use when devices in a stack are positioned close		
together, reducing cable clutter and ensuring neat installation.		
Form Factor: Flexible and compact, the 30 cm length ensures		
easy routing within tight spaces, making it an ideal choice for		
environments with limited space.		
Installation: Plug-and-Play: No additional setup is required.		
Simply connect the cable to the devices in the stack to enable		
reliable power delivery.		· · · · · · · · · · · · · · · · · · ·
Operating Temperature: Typically operates within the range	 	
of 32°F to 104°F (0°C to 40°C).		
Storage Temperature: Typically between -13°F to 158°F		
(-25°C to 70°C).		
Humidity: Suitable for use in environments with a relative		
humidity range of 10% to 85%, non-condensing.		
Data Cabinet 48Ux800Wx1200D, Front single & Rear		
split Mesh Door, with Side Panels, RAL7021 Black,		
Assembled (Build up with Pallet) - 1 unit		
Network and Security for Binalbagan, Fortune Towne		
and Alijis Campus		
100% Cloud-Managed Security Appliance		
Firewall - 3 units		
Maximum NAT Firewall Throughput: 7.5 Gbps		<u> </u>
Maximum NGFW Throughput : 3.5 Gbps		
Maximum Site to site VPN: 3.5 Gbps		
		
Advance Security Throughput: 3.5 Gbps		
	· · · · · · · · · · · · · · · · · · ·	
Wan: 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink		
Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink Lan : 8x SFP+ / 10 Gigabit Ethernet LAN Ports		

Rx SF9 / 1 Gigabit Ethernet LNA Ports Menagement : 1x R145 Management Interface Physical Februer : Mount Type : Rack mount PSU model number : Modular 100-220V 50/50Hz AC 2 x 250VAC PSU Power load (Ide/max) 105W / 190W Operating temperature 32°F to 10°C* 32°F to 10°C* Cloud-Managed Network Switch - 24-port data with 4x10G uplink - 6 units Unified Access Data Plane 2.0 Application-Specific Integrated Chrouit (ASIC) capable Integrated Chrouit (ASI	1 8x SFP / 1 Gigabit Ethernet LAN Ports		•
Re R.145 / Gigabit Ethernet LAN Ports Management : 1x R/345 Manage			
Management: 1x RV35 Management Interface Physical Feature: Mount Type: Rack mount PSU model number: Modular 100-220V 50/50Hz AC 2 x 250WAC PSU Power load (Idle/max) 105W / 190W Operating temperature 32°F to 104°F P°C to 40°C Humidity 5% to 95% Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plana 2.0 Application-Specific Integrated Circuit (ASIC) capable Layer-3 Four SFP+(106/16) fixed uplinks on all models miGs support on UPDE models 320G Dual Dedicated Hardware Stacking Ports UPDE (60W) per port) & Elet E60 2.30 ttypes Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Elbernet ports (Gapati Ethernet) 4 x 16/105 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 602.10 tupliny of Service, 8 queues (W) 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.15 thulliple Spanning Tree Protocol (Interoperability with RSTP, STP, PST), PSTP, PST) STP Enhanements: PBDU gard, Root guard, Loop guard, ubD Broadcast storm control 8802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (COP) 8802.ac Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (COP) 8903.2ad Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (COP) 8903.2ad Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (COP) 8903.2ad Link Layer Discovery Protocol (LDP) and Cisco Discovery Protocol (COP) 8903.2ad Link Layer Discovery Protocol (LDP) and Cisco Discovery Protocol (COP) 8903.2ad Link Layer Discovery Protocol (Supplies the Supplies Supplie			
Physical Feature: Mount Type: Rack mount PSU model number: Modular 100-220V 50/60Hz AC 2 x 550WAC PSU Power load (Idle/max) 105W / 190W Operating temperature 232°F to 104°F 27°C to 40°C Humidity 5% to 95% Power load (Idle/max) 105W / 190W Operating temperature 232°F to 104°F 27°C to 40°C Humidity 5% to 95% Power load (Idle/max) 105W / 190W Power load (Idle/max) 105W / 190W / 1			
Mount Type: Rack mount PSU model number: Modular 100-220V 50/50Hz AC 2 x 250WAC PSU Power load (Idle/max) 105W / 190W Operating temperature 32°F to 104°F 0°C to 40°C Humidity 9'K to 95% Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Accase Data Plana 2.0 Application-Specific Integrated Circuit (ASIC) capable 1ayer-3 Four SFP+(106/IG) fixed uplinks on all models miGs support on UPDE models 320C Dual Dedicated Hardware Stacking Ports 10PC (600W per port) & IEEE 802.3bit type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Elbernet; ports (Glapbit Ethernet) 4 x IG/105 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1b (1904) of September 1904 3 squeues (W/ 6 configurable for DSCP-to-Cos mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PDST) STP Enhancements: RPDU gard, Root guard, Loop guard, UDD Broadcast storm control 8 02.1ab Link Layer Discovery Protocol (CDP) 8 03.2ab Clut Rayer passed on stacked switches 9 Port mirroring 16 MP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) ShMP and StSLOS support for Integration with other network management solution on all models Stacking the Accase of the StSP Filter Transceiver - 4 units Dash Rayer StSLOS supports to Glapabit Ethernet (100E) data transmission, offering high-speed connectivity for network downs and one StSP Filter Transceiver - 4 units Dash Rayer StSLOS supports to Glapabit Ethernet (100E) data transmission, offering high-speed connection, w			
PSU model number: Modular 100-220V 50/60Hz AC 2 x 250WAC PSU	Physical Feature :		
PSU model number: Modular 100-220V 50/60Hz AC 2 x 250WAC PSU	Mount Type · Rack mount		
2 x 250WAC PSU Power load (file/max) 105W / 190W Operating temperature 32°F to 104°F 0°C to 40°C. Humidity 5% to 95% Cloud-Managed Network Switch - 24-port data with 4x10G Uprink - 6 units Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (4SIC) capable Layer 3 Forus 5°F+(105/16) fixed uplinks on all models micig support on UPOE models 3206 Dual Dedicated Hardware Stacking Ports UPOE (60W per port) 8. IEEE 802.30 ft ype3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 15/105 5°F+ uplink power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 15/105 5°F+ uplink power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 5 squeues (v/b configurable for DSCP-0-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Intercoperablity with RST), 57P, PvST, RVST) 5 FP ethancements: 8PDU goard, Root goard, Loop goard, URLD Broadcast storm control 802.1ab Unik Layer Discovery Protocol ((LDP) and Cisco Discovery Protocol (CDP) 802.3ad Unik aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring 16MP sonoping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard 2cer bouch enote orwisping from the protocol Stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches with 480 Gbps of stacking Physically stack up to 8 switches witches 100 Gase SK Multi-Nade - SFP Fiber Transceiver - 4 units 10			
Power load (Idle/max) 1,05W / 190W Operating temperature 32°P to 104°F 9°C to 40°C Humidity 5% to 95% Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plane 2.0 Application-Specific Integrated Grout (ASIC) capable Layer-3 Four SPP+(105/1G) fixed uplinks on all models miGis support on UPDE models 320C Dual Dedicated Hardware Stacking Ports UPDE (60W per port) & IEEE 802.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/10G SPP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1b (guality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PST, RPVST) STP Etherneths State (State State		,	
Operating temperature 32°F to 104°F 0°C to 40°C Humdity 5% to 95% Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plane 2.0 Application-Spedific Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/16) fixed uplinks on all models mcia support on UPCE models 320.0 Data Dedicated Herdware Stacking Ports UPCE (60W per port) 8. IEEE 802.2 bit type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigablt Ethernet) 4 x 16/100 SFP+ uplink power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigablt Ethernet) 4 x 16/100 SFP+ uplink power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigablt Ethernet) 5 squeues (W configurable for DSCP-to-Co mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interopenability with RST), STP, PVST, PVST, RVST) STP Enhancements: BPDU goard, Root guard, Loop quard, UDLD Broadcest storm control 802.1ab Link Layer Discovery Protocol (LUPP) and Cisco Discovery Protocol (CDP) 802.3ad Link agreeation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IcMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Specifications: Operating Temperature: 32°F In Uniform Model Specifications: Operatin	2 x 250WAC PSU		
Operating temperature 32°F to 104°F 0°C to 40°C Humdity 5% to 95% Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plane 2.0 Application-Spedific Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/16) fixed uplinks on all models mcia support on UPCE models 320.0 Data Dedicated Herdware Stacking Ports UPCE (60W per port) 8. IEEE 802.2 bit type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigablt Ethernet) 4 x 16/100 SFP+ uplink power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigablt Ethernet) 4 x 16/100 SFP+ uplink power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigablt Ethernet) 5 squeues (W configurable for DSCP-to-Co mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interopenability with RST), STP, PVST, PVST, RVST) STP Enhancements: BPDU goard, Root guard, Loop quard, UDLD Broadcest storm control 802.1ab Link Layer Discovery Protocol (LUPP) and Cisco Discovery Protocol (CDP) 802.3ad Link agreeation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IcMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Specifications: Operating Temperature: 32°F In Uniform Model Specifications: Operatin	Power load (idle/may) 105W / 190W		
1925 to 104°C 190°C to 40°C 190°C to 40°C to 40°			
Dec to 40°C Humidity 5% to 95%			
Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/1G) fixed uplinks on all models mGis upport on UPDE models 320G Dual Dedicated Hardware Stacking Ports UPDE (600 wep ropt % IEEE 802.3bt Vpe3 Redundant hotswappable power supplies and relecable fans Ports: 24 x 10/100/1000 Bethernet ports (Gigabit Ethernet) 4 x 1G/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RST), STP, PVST, RVST) SFP Enhancements: BPDU quard, Root quard, Loop quard, UDD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LIDP) and Cisco Discovery Protocol (CDP) 802.3ad Link agregation with up to 8 ports per agoregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entities: \$22K Management Managed Val Coud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking thysically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking the rink and stacked switches Mount Type: 18IR Rack mount Environmental Specifications: Operating trengenating the switches Mount Type: 18IR Rack mount Environmental Specifications: SPF Piter Transcelver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network davices such as switches powers. Li Couplex Connector: Uses an Li Cuplex connector, which allows for bid-drectional data transmission over two fibers, enhanding the overall efficiency of the connection. Fiber Type:	32°F to 104°F		
Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/1G) fixed uplinks on all models mGis upport on UPDE models 320G Dual Dedicated Hardware Stacking Ports UPDE (600 wep ropt % IEEE 802.3bt Vpe3 Redundant hotswappable power supplies and relecable fans Ports: 24 x 10/100/1000 Bethernet ports (Gigabit Ethernet) 4 x 1G/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RST), STP, PVST, RVST) SFP Enhancements: BPDU quard, Root quard, Loop quard, UDD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LIDP) and Cisco Discovery Protocol (CDP) 802.3ad Link agregation with up to 8 ports per agoregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entities: \$22K Management Managed Val Coud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking thysically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking the rink and stacked switches Mount Type: 18IR Rack mount Environmental Specifications: Operating trengenating the switches Mount Type: 18IR Rack mount Environmental Specifications: SPF Piter Transcelver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network davices such as switches powers. Li Couplex Connector: Uses an Li Cuplex connector, which allows for bid-drectional data transmission over two fibers, enhanding the overall efficiency of the connection. Fiber Type:	Inoc to 40oc		
Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/1G) fixed uplinks on all models mGig support on UPCE models 320G Dual Dedicated Hardware Stacking Ports UPCE (60W per port) & IEEE 802.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/106 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 aqueuse (W 6 configurable for DSCP+0-CS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (interoperability with RSTP, STP, PST, RPXST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 803.0ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 3ZK Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackFower in a ring topology supporting upto 4 switches Mount Type: 1 RN Back Mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: 40°F to 158°F (40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes byo adapters and one 50cm stack cable 10G Boss Six Mich Mode - 5FF Piter Transceiver - 4 units Data Rate: 10 Gbps. Supports over the office one of the connection, which allows for bid-inctional data transmission over two fibers, enhancing the overall efficiency of the connection.			 .
### ### ### ### ### ### ### ### ### ##	Humidity 5% to 95%		
### ### ### ### ### ### ### ### ### ##			
### ### ### ### ### ### ### ### ### ##	Cloud-Managed Network Switch - 24-nort da	a with	
Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (ASIC) capable Layer-3 Four SFP+ (10G/16) fixed uplinks on all models migg support on UPOE models 3206 Dual Dedicated Hardware Stacking Ports UPDE (60W per port) & IEEE 802.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 1G/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDG quard, Root guard, Loop quard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snoopling for multicast filtering MAC Forwarding Entries: 32K Management Managed via Coud Dashboard Zero-touch remote provisioning (no staging needed) SNWP and SYSLOG support for integrations with other network management solutions Stacking Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking Physically stack up to 8 switches with 480 Gbps of stacking handwidth on all models. Stacking the remote provisioning (no staging needed) License for Cloud-Managed Network Switch. Includes by adapters and one 50cm stack cable License for Cloud-Managed Network Switch. Includes by adapters and one 50cm stack cable University of the specific or th		a with	
Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/1G) fixed uplinks on all models mGig support ou POE models 320G Dual Dedicated Hardware Stacking Ports UPDE (60W per port) & IEEE 802.36t type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, TP, PVST, RPVST) STP Enhancements: BPDU guard, Root quard, Loop quard, ubtD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-bouch remote provisioning (no staging needed) SNIVP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stackin			
Integrated Circuit (ASIC) capable Layer-3 Four SFP+(10G/1G) fixed uplinks on all models mGig support ou POE models 320G Dual Dedicated Hardware Stacking Ports UPDE (60W per port) & IEEE 802.36t type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, TP, PVST, RPVST) STP Enhancements: BPDU guard, Root quard, Loop quard, ubtD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-bouch remote provisioning (no staging needed) SNIVP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stackin	Unified Access Data Plane 2.0 Application-Specific		
Layer-3 Four SPP+(10G/1G) fixed uplinks on all models mGig support on UPOE models 320G Dual Declared Hardware Stacking Ports UPOE (6GW per port) & IEEE 802.3bit type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 1G/10G SPP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST) STP Enhancements: BPDU guard, Root guard, Loop quard, UDD Broadcast storm control B02.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) B02.3ad Link aggregates supported on stacked switches Multichassis aggregates supported on stacked switches Port mitroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch renote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacker Ports. 1 proper support of the stacking bandwidth on all models. Stacker Ports. 1 proper supporting upto 4 switches Mount Type: 1 IRU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Model STPF Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for nebwork devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for Pi-directional data transmission over two fibers, enhanding the overall efficiency of the connection.			
Four SFP+(10G/1G) fixed uplinks on all models mGig support on UPOE models 320G Dual Dedicated Hardware Stacking Ports UPOE (60W per port) & IEEE 80Z.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 15(10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 80Z.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 80Z.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPOU guard, Root guard, Loop guard, UDLD Broadcast storm control 80Z.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 80Z.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirrorina IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: IRU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (O°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humildity: 10% to 85°F non-condensing License for Cloud-Managed Network Switch. Stack Rif for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Model SPF Filer Transceiver - 4 units Data Rate: 10 Gbps, Supports of Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection.			
mGig support on UPOE models 320G Dual Dedicated Hardware Stacking Ports UPOE (60W per port) & IEEE 802.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/100G Bthemet ports (Gigabit Ethernet) 4 x 10/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilliess 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop quard, UDD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-bouch remote provisioning (no staging needed) SNWP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on 60 ms stack cable Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage on 104°F (105°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac: 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmis			
mGig support on UPOE models 320G Dual Dedicated Hardware Stacking Ports UPOE (60W per port) & IEEE 802.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/100G Bthemet ports (Gigabit Ethernet) 4 x 10/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilliess 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop quard, UDD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-bouch remote provisioning (no staging needed) SNWP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on all models. Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bendwidth on 60 ms stack cable Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage on 104°F (105°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac: 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmis	Four SFP+(10G/1G) fixed uplinks on all models		
320G Dual Dedicated Hardware Stacking Ports UPDE (60W per port) & IEEE 802. 3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/100 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (W 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, PVST) STP Enhancements: BPDQ guard, Root guard, Loop guard, UDD Broadcast storm control 802.1sb Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stackwower in a ring topology supporting upto 4 switches Mount Type : IRU Rack mount Environmental Specifications: Operating Temperature: 32°F to 194°P (O°C to 40°C) Storage Temperature: 40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing Ucense for Cloud-Managed Network Switch - 24-port datac-27EARS - 6 units Stack St			
UPDE (60W per port) & IEEE 802.3bt type3 Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 10/100 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 gueues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for Integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: IRUR Back mount Environmental Specifications: Operating Temperature: 32°F to 104°F (°C to 40°C) Storage Temperature: 40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection.			
Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/100 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (W 6 configurable for DSC-Pto-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with SFTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link augreation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking Enhysically stack up to 8 switches with 480 Gbps of stacking Enhysically stack up to 8 switches with 480 Gbps of stacking Enhysically stack up to 18 switches with 480 Gbps of stacking Enhysically stack up to 18 switches with 480 Gbps of stacking Enhysically stack up to 18 switches with 480 Gbps of stacking bandwidth on all models. Stackeyever in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: 40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-22VEARS 6 units Stacking Kit - 6 units Stacking Fither Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connection. Fiber Type:			
Redundant hotswappable power supplies and replaceable fans Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 16/100 SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (W 6 configurable for DSC-Pto-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with SFTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link augreation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking Enhysically stack up to 8 switches with 480 Gbps of stacking Enhysically stack up to 8 switches with 480 Gbps of stacking Enhysically stack up to 18 switches with 480 Gbps of stacking Enhysically stack up to 18 switches with 480 Gbps of stacking Enhysically stack up to 18 switches with 480 Gbps of stacking bandwidth on all models. Stackeyever in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: 40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-22VEARS 6 units Stacking Kit - 6 units Stacking Fither Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connection. Fiber Type:	UPOE (60W per port) & IEEE 802.3ht type3		
Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet) 4 x 1G/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU quard, Root quard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: IRU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Hurnidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack çable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10G6E) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. License for cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10G6E) data transmission, offering high-speed connection; for including the overall efficiency of the connection.		cookin form	
A x 1G/10G SFP+ uplink ports (for fiber or copper connections) Ethernet Switching Capabilities: 802.1 p Quality of Service, 8 queues (W 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PSYT, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ab Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for Integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: 40°F to 158°F (40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two agapters and one 50cm stack cable 10G Base SR Multi-Mode - 5°P Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection.			
Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for Integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: IRU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10d Base SR Multi-Mode - SPP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 glabil Ethernet (10GbE) data transmission, offering high-speed connection. Elber Type:	Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Eth	ernet)	
Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for Integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: IRU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10d Base SR Multi-Mode - SPP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 glabil Ethernet (10GbE) data transmission, offering high-speed connection. Elber Type:			
B gueues (w/ 6 configurable for DSCP-to-CoS mapping) Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Bradcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 803.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 337K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type : 18U Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: 40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SPF Piber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Lop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kif for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SPP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigablt Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Lop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kif for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SPP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigablt Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	8 queues (w/ 6 configurable for DSCP-to-CoS mapp	ing)	
(Interoperability with RSTP, STP, PVST, RPVST) STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: 40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Stack Kit for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			· · · · · · · · · · · · · · · · · · ·
STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac - 2YERS - 6 units Stack Kif for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. Lic Duplex Connector: Uses an Lic Cuplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:		otocoi	
Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SMMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac - 2YEARS - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
Broadcast storm control 802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SMMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac - 2YEARS - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	STP Enhancements: BPDU guard, Root guard, Loop guard	i, udld	
802.1ab Link Layer Discovery Protocol (LIDP) and Cisco Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stackpower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (O°C to 40°C) Storage Temperature: 40°C to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Rit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Piber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
Discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management MAnaged via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stackfower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Stack Rit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SIP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Glgabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. ILC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stackower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stacking Kit - 6 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	[1802.1ab Link Layer Discovery Protocol (LLDP) and (Cisco	
802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stackower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stacking Kit - 6 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	Discovery Protocol (CDP)		
Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32/K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking pandwidth on all models. Stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - 5FP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:		recete	
Port mirroring IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNNP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type : 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	Multichassis aggregates supported on stacked switch	hes	
IGMP snooping for multicast filtering MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	Port mirroring		
MAC Forwarding Entries: 32K Management Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. Stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transcelver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Rit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	MAC Forwarding Entries: 32K		
Managed via Cloud Dashboard Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	Management		
Zero-touch remote provisioning (no staging needed) SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack if for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate: 10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:		.	
network management solutions Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	Zero-touch remote provisioning (no staging needed	, , , , , , , , , , , , , , , , , , , ,	
Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:			
stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other		
stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other		
StackPower in a ring topology supporting upto 4 switches Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with othe network management solutions	21	
Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480	21	
Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models.	Gbps of	
Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models.	Gbps of	
to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw	Gbps of	
Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount	Gbps of itches	
Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 switches with	Gbps of itches	
Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 4 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 switches with 480 stackpower in a ring topology supporting upto 5 switches with 480 s	Gbps of itches	
License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage	Gbps of itches	
24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C)	Gbps of itches	
24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C)	Gbps of itches	
24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C)	Gbps of itches	
Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing	Gbps of itches re: 32°F	
Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch -	Gbps of itches re: 32°F	
Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch -	Gbps of itches re: 32°F	
Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch -	Gbps of itches re: 32°F	
two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units	Gbps of itches re: 32°F	
10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units	Gbps of itches re: 32°F	
10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include	Gbps of itches re: 32°F	
Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include	Gbps of itches re: 32°F	
data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable	Gbps of itches re: 32°F	
network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Included two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4	Gbps of itches re: 32°F	
network devices such as switches, routers, and servers. LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Included two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4	Gbps of itches re: 32°F	
LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1)	Gbps of itches re: 32°F ies iunits OGbE)	
allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity	Gbps of itches re: 32°F Jes Jes Jes Jes Jes JogbE) for	
allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and serverse.	Gbps of itches re: 32°F des units OGbE) for	
enhancing the overall efficiency of the connection. Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and sen LC Duplex Connector: Uses an LC duplex connector	Gbps of itches re: 32°F des units .0GbE) for /ers. , which	
Fiber Type:	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and sen LC Duplex Connector: Uses an LC duplex connector	Gbps of itches re: 32°F des units .0GbE) for /ers. , which	
	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stacking Kit - 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and served LC Duplex Connector: Uses an LC duplex connector allows for bi-directional data transmission over two	Gbps of itches re: 32°F des units .0GbE) for /ers. , which	
	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and served LC Duplex Connector: Uses an LC duplex connector allows for bi-directional data transmission over two enhancing the overall efficiency of the connection.	Gbps of itches re: 32°F des units .0GbE) for /ers. , which	
processing transprocessing for the processing transprocessing	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 sw Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac- 2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and served LC Duplex Connector: Uses an LC duplex connector allows for bi-directional data transmission over two enhancing the overall efficiency of the connection.	Gbps of itches re: 32°F des units .0GbE) for /ers. , which	
	SNMP and SYSLOG support for integration with other network management solutions Stacking: Physically stack up to 8 switches with 480 stacking bandwidth on all models. StackPower in a ring topology supporting upto 4 swing Mount Type: 1RU Rack mount Environmental Specifications: Operating Temperature to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing License for Cloud-Managed Network Switch - 24-port datac-2YEARS 6 units Stack Kit for Cloud-Managed Network Switch. Include two adapters and one 50cm stack cable 10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (1 data transmission, offering high-speed connectivity network devices such as switches, routers, and served LC Duplex Connector: Uses an LC duplex connector allows for bi-directional data transmission over two enhancing the overall efficiency of the connection. Fiber Type:	Gbps of itches re: 32°F des units OGbE) for rers. , which fibers,	

		
mode fiber cables, which are optimized for shorter distances.		
MMF uses multiple light paths to transmit data, which can		
reduce the cost of fiber infrastructure over shorter distances.		
Wavelength:		
850 nm: Operates at an 850 nm wavelength, a common		
choice for multi-mode fiber connections, enabling high-speed		
data transmission over short distances.		
Maximum Reach: Up to 300 meters (depending on the fiber		
type and quality): The maximum reach depends on the fiber		
type used and the quality of the installation, but it typically		
supports distances up to 300 meters over OM3 fiber or up to		
400 meters over OM4 fiber.		
	····	
850 nm: Operates at an 850 nm wavelength, a common		
choice for multi-mode fiber connections, enabling high-speed		
data transmission over short distances.		
Maximum Reach: Up to 300 meters (depending on the fiber		
type and quality): The maximum reach depends on the fiber		
type used and the quality of the installation, but it typically		
		···
supports distances up to 300 meters over OM3 fiber or up to		
400 meters over OM4 fiber.		
Power Consumption		
0°C to 70°C (32°F to 158°F): Suitable for standard operating		
environments, such as data centers, server rooms, or		
network closets.	 	-
HELWOIK CIOSELS.		
1000Base SX Multi-Mode - SFP Fiber Transceiver - 6 units		
Data Rate:		
1 Gbps (Gigabit Ethernet): Supports 1000Base-SX, delivering		
1 Gbps data transfer rate for network connections.		
Transceiver Type:		
LC Duplex Connector: Uses LC duplex connectors for bi-		
directional data transmission over two fiber strands, enabling		
efficient communication between network devices.		
Fiber Type:		
Multi-Mode Fiber (MMF): Designed specifically for use with		
multi-mode fiber cables, optimized for short-range		
transmission over distances ranging from a few meters up		
to several hundred meters, depending on the fiber type.		
Wavelength:		
850 nm: Operates at an 850 nm wavelength, which is		
commonly used for short-range, high-speed fiber-optic		
communication over multi-mode fiber.		
Maximum Reach:		
Up to 550 meters: The reach depends on the fiber's grade		
and quality. Over OM3 multimode fiber, it typically supports		
distances of up to 550 meters. For OM4 fiber, the distance		-
	 	
can be up to 550 meters at 1 Gbps.		
Power Consumption:		
0°C to 70°C (32°F to 158°F): Suitable for a wide range of		
operating environments, including data centers and server		
rooms, where temperature variations are typically moderate.		
, some transportation of the transportation	 	
Data Cabinat (Otto CONTA 2000 Front - 1-01-0 Dec		
Data Cabinet 48Ux800Wx1200D, Front single & Rear		
split Mesh Door, with Side Panels, RAL7021 Black,		
Assembled (Build up with Pallet) - 3 units		
NOTE: Attach Certificate of Site Inspection		
		
vvvvvvvvvvvvvv nathing falloup v v v v v v v v v v v v v v v v v v v		
-X-X-X-X-X-X-X-X-X-x-nothing follows-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x	 	
TOTAL ABC = Php 15,000,000.00		
PR # 25-624-0528 05-28-2025/A. Torres		1
INCOME 417-164-25-05 05-29-2025		
		
Note: All items should be delivered within One Hundred Ton-	h. (170)	daye
Note: All items should be delivered within One Hundred Twer	ity (TZU) calendar	uays
upon receipt of notice to proceed.		

Section VII. Technical Specifications

Item	Specification	Statement of Compliance
		Bidders must state here either
		"Comply" or "Not Comply" against
		each of the individual parameters of
		each Specification stating the
		corresponding performance parameter
		of the equipment offered. Statements
		of "Comply" or "Not Comply" must be
		supported by evidence in a Bidders Bid
		and cross-referenced to that evidence.
		Evidence shall be in the form of
		manufacturer's un-amended sales
		literature, unconditional statements
		of specification and compliance issued
		by the manufacturer, samples,
		independent test data etc., as
1		appropriate. A statement that is not
		supported by evidence or is subse-
		quently found to be contradicted by the
		evidence presented will render the Bid
		under evaluation liable for rejection.
l		A statement either in the Bidders
1		statement of compliance or the
		supporting evidence that is found to be
1		false either during Bid evaluation, post-
		qualification or the execution of the
1		
1		Contract may be regarded as fraudulent
		and render the Bidder or supplier liable
		for prosecution subject to the provisions
		of ITB Clause 3.1(a.2) and/or GCC
	ONE (1) LOT	Clause 2.1(a.2).
1	Hyperconverged Infrastructure - Compute	
	Hyperconverged with Software Defined Major Line	
<u> </u>	Bundle & Perpetual SW License Fabric Interconnect	
	Compute Hyperconverged Fabric Interconnect supports	
	I/O consolidation with end-to-end network	
	virtualization, visibility, and QoS guarantees for the	
	following LAN and SAN traffic 2 units	
	FC SAN, IP Storage (iSCSI, NFS), NVMEoF (NVMe/FC,	
	NVMe/TCP, NVMe over ROCEv2)	
	Server management and LAN traffic	
	UCS Manager and Intersight Managed	
_	Mode - 2units	
	UCS Power Supply/AC 1100W PSU -	
	Port Side Exhaust - 4 units	
	Power Cord Jumper, C13-C14 Connectors,	
	2 Meter Length - 4 units	
	10GBASE-SR SFP Module, Enterprise-Class - 4 units	
	QSFP to SFP10G adapter - 4 units	
	100GBASE-CR4 Passive Copper Cable, 3m - 6 units	
	Intersight SaaS intelligent visualization, optimization,	
	orchestration to bring your teams, tools,	
	infrastructure and apps together - 1 unit	
	Smart Net Total Care (SNTC) service contract for	
	Compute Hyperconverged Fabric Interconnect-2 units	
	Compute Hyperconverged M7 All Flash Node	
	pre-configured UCS servers that are ready to be	
	deployed as nodes to form clusters in a variety of	
	configurations. Each server appliance contains three	
	software layers: UCS server firmware, hypervisor,	
	and hyperconverged storage software - 3 units	
	 and hyperconverged storage software - 3 units ■ Up to 10 front SFF SAS/SATA SSDs ■ One to three half-height PCIe risers or one to two full- 	

		<u> </u>
	height PCIe risers	
	■ M7 12G SAS HBA for (16 Drives)	
	■ 480GB M.2 SATA SSD x 2	
<u></u>	■ Boot optimized M.2 Raid controller x 2	
	■ Ball Bearing Rail Kit for C220 & C240 M7/M8 rack servers x 2	
	■ TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers x 2	
	■ HCI AOS AHV 6.8 SW	
	■ UCS M7 Heatsink for & C240 GPU Heatsink	
	■ 1200W Titanium power supply for C-Series Servers x 2	
	■ Power Cord Jumper, C13-C14 Connectors,	
	2 Meter Length x 2	
	■ 1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD x 3	
	■ 32GB DDR5-4800 RDIMM 1Rx4 (16Gb) x 4	
	■ Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s	
	Cluster Deployment and Expansion - Starter -	
	- Base 1 + 3 Var 1 unit	
	Starter SW LIC & Production SW Support for 36 core	
	Entitlement ONLY Cloud Infrastructure SW 1	
	License Software 2YRS 1	
2	Network Switches and Firewall for Talisay Campus	
	100% Cloud-Managed Security Appliance	
	Firewall - 1 unit	
—	Maximum NAT Firewall Throughput: 10Gbps	
	Maximum NGFW Throughput: 7.5 Gbps	-
	Maximum Site to site VPN: 4.5 Gbps	
	Advance Security Throughput: 7 Gbps	
<u> </u>	Campus or VPN concentrator with up to 10,000 users	
<u> </u>	Wan: 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink	
ļ	Lan: 8× GbE RJ45 , 8× GbE SFP, 8× 10 GbE SFP+	
<u> </u>	Management : 1x RJ45 Management Interface	
	Physical Features :	
<u> </u>	Mount Type: Rack mount - 1U	
ļ	PSU model number :Modular 100-220V 50/60Hz AC	
├	2 x 250WAC PSU	
<u></u>	Power load (idle/max) 105W / 190W	
<u> </u>	Operating temperature: 32°F to 104°F	
<u> </u>	0°C to 40°C	
	Humidity 5% to 95%	
<u> </u>	Cloud-Managed Network Switch - 24-port - 2 units	
	Unified Access Data Plane 2.0 Application-Specific	
	Integrated Circuit (ASIC) capable	
	Layer-3	
	40G or 10G modular uplink options on all models	
	mGig support	
	Dual Dedicated 120G Hardware Stacking Port	
	UPOE (60W per port) & IEEE 802.3bt type3	
	StackPower in a ring topology supporting up to 4 switches	
	Netflow version 10 (IPFIX) and Encrypted Traffic Analytics	
<u> </u>	Micro-Segmentation via Adaptive Policy (Security Group Tags)	
	Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)	
	Ethernet Switching Capabilities: 802.1p Quality of Service,	
	8 queues (w/ 6 configurable for DSCP-to-CoS mapping)	
-	Single Instance of 802.1s Multiple Spanning Tree Protocol	
	(interoperability with RSTP, STP, PVST, RPVST)	
	STP Enhancements: BPDU guard, Root guard, Loop guard,	
	UDLD	
	Broadcast storm control	
	802.1ab Link Layer Discovery Protocol (LLDP) and	
f .		1
	discovery Protocol (CDP)	
	discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate,	
	discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches	
	discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring	
	discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring IGMP snooping for multicast filtering	
	discovery Protocol (CDP) 802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches Port mirroring	

stacking bandwidth on all models.	
Virtual stacking supports thousands of switch ports in a sing	le
logical stack for unified management, monitoring, and	
configuration	
Faster convergence	
StackPower in a ring topology supporting upto 4 switches	
Mount Type: 1RU Rack mount	
Environmental Specifications: Operating Temperature: 32°F	
to 104°F (0°C to 40°C) Storage	
Temperature: -40°F to 158°F (-40°C to 70°C)	
Cloud-Managed Network Switch License Advance -	
24-port - 2YEARS 2 units	
8 x 10GE Network Module - 2 units	
8 x 10 Gigabit Ethernet (10GE) Ports:	
Provides high-speed connections for devices and servers	
that require 10G Ethernet speeds. These ports are ideal for	
backbone connectivity, high-performance data center	
environments, or high-demand aggregation.	
Supported Media Types: These ports can support various	
types of 10G media, including SFP+ (small form-factor	
pluggable plus) transceivers for fiber-optic cables,	
offering flexibility in deployment.	
10 Gbps per Port: Each of the 8 ports can deliver up to 10	
Gbps of bandwidth, offering sufficient capacity for high-spee	d_
data transmission in modern enterprise networks.	
Cloud Management: The module works within the ecosystem	
allowing it to be managed through a cloud-based dashboard	,
which simplifies setup, monitoring, and troubleshooting	
across the network.	
Redundancy and Reliability: Zero-Touch Provisioning: Simplifies deployment by	
automatically configuring the module via cloud management	
platform.	•
Advanced QoS and Traffic Management: Supports quality of	
service (QoS) features for traffic prioritization and bandwidt	
management.	
Operating Temperature: Typically operates in the range of	
32°F to 104°F (0°C to 40°C)	
Storage Temperature: Typically between -13°F to 158°F	
(25°C to 70°C).	
Humidity: The module is designed to function in environmer	nts
with a relative humidity range of 10% to 85%, non-condens	
50CM Type 1 Stacking Cable-Network 2 units	
Cable Length: 50 cm (0.5 meters): Provides the ideal length	
for connecting stacked devices that are positioned in close	
proximity to each other.	
Type 1 Stacking Cable: This cable type is specifically	
designed for interconnecting devices in a stack configuration	le.
supporting high-speed data transfer between multiple switches.	
Plug-and-Play: The cable is easy to install and configure,	
requiring no additional setup or software for basic	
connectivity between stacked devices.	
Operating Temperature: Typically operates in environments	
with temperatures ranging from 32°F to 104°F (0°C to 40°C	
Storage Temperature: Designed to be stored in temperature	S
between -13°F to 158°F (-25°C to 70°C).	
Humidity: Suitable for environments with a relative humidity	
range of 10% to 85%, non-condensing.	
Stack Power Cable 20 CM 2 -2	
Stack Power Cable 30 CM - 2 units	
Cable Length: 30 cm (0.3 meters): A compact length that is	
ideal for use when devices in a stack are positioned close together, reducing cable clutter and ensuring neat installation	
Form Factor: Flexible and compact, the 30 cm length ensure	
TO THE REPORT OF THE PROPERTY	.J

leasy routing within tight spaces, making it an ideal choice for	
environments with limited space.	
Installation: Plug-and-Play: No additional setup is required.	
Simply connect the cable to the devices in the stack to enable	
reliable power delivery.	
Operating Temperature: Typically operates within the range	
of 32°F to 104°F (0°C to 40°C).	
Storage Temperature: Typically between -13°F to 158°F	
(-25°C to 70°C).	
Humidity: Suitable for use in environments with a relative	
humidity range of 10% to 85%, non-condensing.	
The final of tanger of 20 70 to 00 70 71 to 11 t	
Data Cabinet 48Ux800Wx1200D, Front single & Rear	
split Mesh Door, with Side Panels, RAL7021 Black,	
Assembled (Build up with Pallet) - 1 unit	
Network and Security for Binalbagan, Fortune Towne	
and Alijis Campus	
100% Cloud-Managed Security Appliance	
Firewall - 3 units	
Maximum NAT Firewall Throughput: 7.5 Gbps	
Maximum NGFW Throughput : 3.5 Gbps	1
Maximum Site to site VPN: 3.5 Gbps	
Advance Security Throughput: 3.5 Gbps	
Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink	
Lan: 8x SFP+ / 10 Gigabit Ethernet LAN Ports	
8x SFP / 1 Gigabit Ethernet LAN Ports	
8x RJ45 / Gigabit Ethernet LAN Ports	
Management : 1x RJ45 Management Interface	
Physical Feature :	
Mount Type : Rack mount	
PSU model number : Modular 100-220V 50/60Hz AC	
2 x 250WAC PSU	
Power load (idle/max) 105W / 190W	
Operating temperature	
32°F to 104°F	
0°C to 40°C	
Humidity 5% to 95%	
/	
Cloud-Managed Network Switch - 24-port data with	
4x10G Uplink - 6 units	
Unified Access Data Plane 2.0 Application-Specific	
Integrated Circuit (ASIC) capable	
Layer-3	
Four SFP+(10G/1G) fixed uplinks on all models	
mGig support on UPOE models	
320G Dual Dedicated Hardware Stacking Ports	
UPOE (60W per port) & IEEE 802.3bt type3	
Redundant hotswappable power supplies and replaceable fans	
Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)	-
4 x 1G/10G SFP+ uplink ports (for fiber or copper connections)	
Ethernet Switching Capabilities: 802.1p Quality of Service,	
8 queues (w/ 6 configurable for DSCP-to-CoS mapping)	
Single Instance of 802.1s Multiple Spanning Tree Protocol	
(interoperability with RSTP, STP, PVST, RPVST)	
STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD	
Broadcast storm control	
802.1ab Link Layer Discovery Protocol (LLDP) and Cisco	
Discovery Protocol (CDP)	
802.3ad Link aggregation with up to 8 ports per aggregate,	
Multichassis aggregates supported on stacked switches	
Port mirroring	
IGMP snooping for multicast filtering	
MAC Forwarding Entries: 32K	
Management	
Managed via Cloud Dachboard	1
Managed via Cloud Dashboard	
Zero-touch remote provisioning (no staging needed)	

SNMP and SYSLOG support for integration with other	
network management solutions	
Stacking: Physically stack up to 8 switches with 480 Gbps of	
stacking bandwidth on all models.	
StackPower in a ring topology supporting upto 4 switches	
Mount Type: 1RU Rack mount	
Environmental Specifications: Operating Temperature: 32°F	
to 104°F (0°C to 40°C) Storage	
Temperature: -40°F to 158°F (-40°C to 70°C)	
Relative Humidity: 10% to 85% non-condensing	
License for Cloud-Managed Network Switch -	
24-port datac- 2YEARS 6 units	
Stacking Kit - 6 units	
Stack Kit for Cloud-Managed Network Switch. Includes	
two adapters and one 50cm stack cable	
10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units	
Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE)	
data transmission, offering high-speed connectivity for	
network devices such as switches, routers, and servers.	
LC Duplex Connector: Uses an LC duplex connector, which	
allows for bi-directional data transmission over two fibers,	
enhancing the overall efficiency of the connection.	
Fiber Type:	
Multi-Mode Fiber (MMF): Designed for use with multi-	
mode fiber cables, which are optimized for shorter distances.	
MMF uses multiple light paths to transmit data, which can	
reduce the cost of fiber infrastructure over shorter distances.	
Wavelength:	
850 nm: Operates at an 850 nm wavelength, a common	
choice for multi-mode fiber connections, enabling high-speed	
data transmission over short distances.	
Maximum Reach: Up to 300 meters (depending on the fiber	
type and quality): The maximum reach depends on the fiber	
type used and the quality of the installation, but it typically	
supports distances up to 300 meters over OM3 fiber or up to	
400 meters over OM4 fiber.	
850 nm: Operates at an 850 nm wavelength, a common	
choice for multi-mode fiber connections, enabling high-speed	
data transmission over short distances.	
Maximum Reach: Up to 300 meters (depending on the fiber	
type and quality): The maximum reach depends on the fiber	
type used and the quality of the installation, but it typically	
supports distances up to 300 meters over OM3 fiber or up to	
400 meters over OM4 fiber.	
Power Consumption	
0°C to 70°C (32°F to 158°F): Suitable for standard operating	
environments, such as data centers, server rooms, or	
network closets.	
1000Base SX Multi-Mode - SFP Fiber Transceiver - 6 units	
Data Rate:	
1 Gbps (Gigabit Ethernet): Supports 1000Base-SX, delivering	
1 Gbps data transfer rate for network connections.	
Transceiver Type:	
LC Duplex Connector: Uses LC duplex connectors for bi-	
directional data transmission over two fiber strands, enabling	
efficient communication between network devices.	
Fiber Type:	
Multi-Mode Fiber (MMF): Designed specifically for use with	
multi-mode fiber cables, optimized for short-range	
transmission over distances ranging from a few meters up	
to several hundred meters, depending on the fiber type.	
Wavelength:	
850 nm: Operates at an 850 nm wavelength, which is	
commonly used for short-range, high-speed fiber-optic	

Maximum Reach: Up to 550 meters: The reach depends on the fiber's grade and quality. Over OM3 multimode fiber, it typically supports distances of up to 550 meters. For OM4 fiber, the distance can be up to 550 meters at 1 Gbps. Power Consumption: 0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server rooms, where temperature variations are typically moderate.	
Up to 550 meters: The reach depends on the fiber's grade and quality. Over OM3 multimode fiber, it typically supports distances of up to 550 meters. For OM4 fiber, the distance can be up to 550 meters at 1 Gbps. Power Consumption: 0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server	
and quality. Over OM3 multimode fiber, it typically supports distances of up to 550 meters. For OM4 fiber, the distance can be up to 550 meters at 1 Gbps. Power Consumption: 0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server	
distances of up to 550 meters. For OM4 fiber, the distance can be up to 550 meters at 1 Gbps. Power Consumption: 0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server	
can be up to 550 meters at 1 Gbps. Power Consumption: 0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server	
Power Consumption: 0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server	
0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server	
operating environments, including data centers and server	
rooms, where temperature variations are typically moderate.	
Data Cabinet 48Ux800Wx1200D, Front single & Rear	·
split Mesh Door, with Side Panels, RAL7021 Black,	
Assembled (Build up with Pallet) - 3 units	
NOTE: Attach Certificate of Site Inspection	J
•	
-x-x-x-x-x-x-x-x-x-x-x-nothing follows-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x	
TOTAL ABC = Php 15,000,000.00	
PR # 25-624-0528 05-28-2025/A. Torres	
INCOME 417-164-25-05 05-29-2025	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 1 of 8

Date:

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			ONE (1) LOT			
1	- 1	lot	Hyperconverged Infrastructure - Compute			
			Hyperconverged with Software Defined Major Line			
			Bundle & Perpetual SW License Fabric Interconnect			
			Compute Hyperconverged Fabric Interconnect supports			
			I/O consolidation with end-to-end network			
			virtualization, visibility, and QoS guarantees for the			
			following LAN and SAN traffic 2 units			
			 FC SAN, IP Storage (iSCSI, NFS), NVMEoF (NVMe/FC, 			
			NVMe/TCP, NVMe over ROCEv2)			
			Server management and LAN traffic			
			UCS Manager and Intersight Managed			
			Mode - 2units			
			UCS Power Supply/AC 1100W PSU -			
			Port Side Exhaust - 4 units			
			Power Cord Jumper, C13-C14 Connectors,			
			2 Meter Length - 4 units			
			10GBASE-SR SFP Module, Enterprise-Class - 4 units			
			QSFP to SFP10G adapter - 4 units			
			100GBASE-CR4 Passive Copper Cable, 3m - 6 units			
			Intersight SaaS intelligent visualization, optimization,			
			orchestration to bring your teams, tools,			
			infrastructure and apps together - 1 unit			
			Smart Net Total Care (SNTC) service contract for			
			Compute Hyperconverged Fabric Interconnect-2 units			
			Compute Hyperconverged M7 All Flash Node			
			pre-configured UCS servers that are ready to be			
			deployed as nodes to form clusters in a variety of			
			configurations. Each server appliance contains three			
			software layers: UCS server firmware, hypervisor,	1		
			and hyperconverged storage software - 3 units			
			■ Up to 10 front SFF SAS/SATA SSDs			
			■ One to three half-height PCIe risers or one to two full-			
			height PCIe risers			
			■ M7 12G SAS HBA for (16 Drives)			
			■ 480GB M.2 SATA SSD x 2			
			■ Boot optimized M.2 Raid controller x 2			
			■ Ball Bearing Rail Kit for C220 & C240 M7/M8 rack servers x 2			
			■ TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers x 2			
			■ HCI AOS AHV 6.8 SW			

Signature of Bidder	
Name of Firm	
Date	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 2 of 8

Date:		
Date.		

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			■ UCS M7 Heatsink for & C240 GPU Heatsink			
			■ 1200W Titanium power supply for C-Series Servers x 2			
			■ Power Cord Jumper, C13-C14 Connectors,			
			2 Meter Length x 2			
			■ 1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD x 3			
			■ 32GB DDR5-4800 RDIMM 1Rx4 (16Gb) x 4			
			■ Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s			
			Cluster Deployment and Expansion - Starter -			
			- Base 1 + 3 Var 1 unit			
			Starter SW LIC & Production SW Support for 36 core			
			Entitlement ONLY Cloud Infrastructure SW 1			
			License Software 2YRS 1			
2	1	lot	Network Switches and Firewall for Talisay Campus			
		100	100% Cloud-Managed Security Appliance			
		1	Firewall - 1 unit			
		<u> </u>	Maximum NAT Firewall Throughput : 10Gbps			
			Maximum NGFW Throughput : 7.5 Gbps			
		1	Maximum Site to site VPN : 4.5 Gbps			
		1	Advance Security Throughput: 7 Gbps		1	
	-	1	Campus or VPN concentrator with up to 10,000 users			
			Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink			
			Lan: 8× GbE RJ45, 8× GbE SFP, 8× 10 GbE SFP+			
			Management : 1x RJ45 Management Interface	_		
			Physical Features :			
		1	Mount Type : Rack mount - 1U			
		1	PSU model number :Modular 100-220V 50/60Hz AC			
		1	2 x 250WAC PSU			1
			Power load (idle/max) 105W / 190W			
			Operating temperature : 32°F to 104°F			
		1	0°C to 40°C			
			Humidity 5% to 95%			
			Cloud-Managed Network Switch - 24-nort - 2 units			
		+	Cloud-Managed Network Switch - 24-port - 2 units			+
		+	Unified Access Data Plane 2.0 Application-Specific			1
		+	Integrated Circuit (ASIC) capable		-	+
		+	Layer-3	-		+
			40G or 10G modular uplink options on all models		-	
			mGig support			
			Dual Dedicated 120G Hardware Stacking Port			

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 3 of 8

Date:			

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			UPOE (60W per port) & IEEE 802.3bt type3			
			StackPower in a ring topology supporting up to 4 switches			
			Netflow version 10 (IPFIX) and Encrypted Traffic Analytics			
			Micro-Segmentation via Adaptive Policy (Security Group Tags)			
			Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)			
			Ethernet Switching Capabilities: 802.1p Quality of Service,			
			8 queues (w/ 6 configurable for DSCP-to-CoS mapping)			
			Single Instance of 802.1s Multiple Spanning Tree Protocol			
			(interoperability with RSTP, STP, PVST, RPVST)			
			STP Enhancements: BPDU guard, Root guard, Loop guard,			
			UDLD			
			Broadcast storm control			
			802.1ab Link Layer Discovery Protocol (LLDP) and			
			discovery Protocol (CDP)			
			802.3ad Link aggregation with up to 8 ports per aggregate,			
			Multichassis aggregates supported on stacked switches			
			Port mirroring			
			IGMP snooping for multicast filtering			
			MAC Forwarding Entries: 32K			
			Stacking: Physically stack up to 8 switches with 480 Gbps of			
			stacking bandwidth on all models.			
			Virtual stacking supports thousands of switch ports in a single			
			logical stack for unified management, monitoring, and			
			configuration			
			Faster convergence			
			StackPower in a ring topology supporting upto 4 switches			
			Mount Type: 1RU Rack mount			
			Environmental Specifications: Operating Temperature: 32°F			
			to 104°F (0°C to 40°C) Storage			
			Temperature: -40°F to 158°F (-40°C to 70°C)			
			Cloud-Managed Network Switch License Advance -			
			24-port - 2YEARS 2 units			
			8 x 10GE Network Module - 2 units			
			8 x 10 Gigabit Ethernet (10GE) Ports:			
			Provides high-speed connections for devices and servers			
			that require 10G Ethernet speeds. These ports are ideal for			
			backbone connectivity, high-performance data center			
			environments, or high-demand aggregation.			
			Supported Media Types: These ports can support various			

Signature of Bidder	
Name of Firm	
Date	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 4 of 8

Date:	

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			types of 10G media, including SFP+ (small form-factor			
			pluggable plus) transceivers for fiber-optic cables,			
			offering flexibility in deployment.			
			10 Gbps per Port: Each of the 8 ports can deliver up to 10			
			Gbps of bandwidth, offering sufficient capacity for high-speed			
			data transmission in modern enterprise networks.			
			Cloud Management: The module works within the ecosystem,			
			allowing it to be managed through a cloud-based dashboard,			
			which simplifies setup, monitoring, and troubleshooting			
			across the network.			
			Redundancy and Reliability:			
			Zero-Touch Provisioning: Simplifies deployment by			
			automatically configuring the module via cloud management			
			platform.	_		
			Advanced QoS and Traffic Management: Supports quality of			
			service (QoS) features for traffic prioritization and bandwidth			
			management.			
			Operating Temperature: Typically operates in the range of			
			32°F to 104°F (0°C to 40°C)			
			Storage Temperature: Typically between -13°F to 158°F			
			(25°C to 70°C).			
			Humidity: The module is designed to function in environments			
			with a relative humidity range of 10% to 85%, non-condensing.			
			FOCM Town of Charles California Nationals 2 with			-
		-	50CM Type 1 Stacking Cable-Network 2 units			
		-	Cable Length: 50 cm (0.5 meters): Provides the ideal length			-
			for connecting stacked devices that are positioned in close			-
			proximity to each other.			-
			Type 1 Stacking Cable: This cable type is specifically			
		-	designed for interconnecting devices in a stack configuration,			-
			supporting high-speed data transfer between multiple switches.			
			Plug-and-Play: The cable is easy to install and configure,			
			requiring no additional setup or software for basic			T
			connectivity between stacked devices.			
			Operating Temperature: Typically operates in environments			
			with temperatures ranging from 32°F to 104°F (0°C to 40°C).			
			Storage Temperature: Designed to be stored in temperatures			
			between -13°F to 158°F (-25°C to 70°C).			
			Humidity: Suitable for environments with a relative humidity			
			range of 10% to 85%, non-condensing.			

Signature of Bidder	
Name of Firm	
Date	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 5 of 8

Date:	

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			Stack Power Cable 30 CM - 2 units			
			Cable Length: 30 cm (0.3 meters): A compact length that is			
			ideal for use when devices in a stack are positioned close			
			together, reducing cable clutter and ensuring neat installation.			
			Form Factor: Flexible and compact, the 30 cm length ensures			
			easy routing within tight spaces, making it an ideal choice for			
			environments with limited space.			
			Installation: Plug-and-Play: No additional setup is required.			
			Simply connect the cable to the devices in the stack to enable			
			reliable power delivery.			
			Operating Temperature: Typically operates within the range			
			of 32°F to 104°F (0°C to 40°C).			
			Storage Temperature: Typically between -13°F to 158°F			
			(-25°C to 70°C).			
			Humidity: Suitable for use in environments with a relative			
			humidity range of 10% to 85%, non-condensing.			
			Data Cabinet 48Ux800Wx1200D, Front single & Rear			
			split Mesh Door, with Side Panels, RAL7021 Black,			
			Assembled (Build up with Pallet) - 1 unit			
			Network and Security for Binalbagan, Fortune Towne			
			and Alijis Campus			
			100% Cloud-Managed Security Appliance			
			Firewall - 3 units			
			Maximum NAT Firewall Throughput: 7.5 Gbps			
			Maximum NGFW Throughput : 3.5 Gbps			
			Maximum Site to site VPN: 3.5 Gbps			
			Advance Security Throughput: 3.5 Gbps			
			Wan: 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink			
			Lan: 8x SFP+ / 10 Gigabit Ethernet LAN Ports			
			8x SFP / 1 Gigabit Ethernet LAN Ports			
			8x RJ45 / Gigabit Ethernet LAN Ports			
			Management : 1x RJ45 Management Interface			
			Physical Feature :			
			Mount Type : Rack mount			
			PSU model number : Modular 100-220V 50/60Hz AC			
			2 x 250WAC PSU			
			Power load (idle/max) 105W / 190W			
			Operating temperature			

Signature of Bidder	
Name of Firm	
Date	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 6 of 8

Date:		

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			32°F to 104°F			
			0°C to 40°C			
			Humidity 5% to 95%			
			Cloud-Managed Network Switch - 24-port data with			
			4x10G Uplink - 6 units			
		_	Unified Access Data Plane 2.0 Application-Specific			
			Integrated Circuit (ASIC) capable			
			Layer-3			
			Four SFP+(10G/1G) fixed uplinks on all models			
			mGig support on UPOE models			
			320G Dual Dedicated Hardware Stacking Ports			
			UPOE (60W per port) & IEEE 802.3bt type3			
			Redundant hotswappable power supplies and replaceable fans			
			Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)			
			4 x 1G/10G SFP+ uplink ports (for fiber or copper connections)			
			Ethernet Switching Capabilities: 802.1p Quality of Service,			T
			8 queues (w/ 6 configurable for DSCP-to-CoS mapping)			
			Single Instance of 802.1s Multiple Spanning Tree Protocol			
			(interoperability with RSTP, STP, PVST, RPVST)			
			STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD			
			Broadcast storm control			
			802.1ab Link Layer Discovery Protocol (LLDP) and Cisco			
			Discovery Protocol (CDP)			
			802.3ad Link aggregation with up to 8 ports per aggregate,			
			Multichassis aggregates supported on stacked switches			
			Port mirroring			
			IGMP snooping for multicast filtering			
			MAC Forwarding Entries: 32K			
			Management			
			Managed via Cloud Dashboard			
			Zero-touch remote provisioning (no staging needed)			
			SNMP and SYSLOG support for integration with other			
			network management solutions			
			Stacking: Physically stack up to 8 switches with 480 Gbps of			
			stacking bandwidth on all models.			
			StackPower in a ring topology supporting upto 4 switches			
			Mount Type: 1RU Rack mount			
			Environmental Specifications: Operating Temperature: 32°F			
			to 104°F (0°C to 40°C) Storage			
			Temperature: -40°F to 158°F (-40°C to 70°C)			

Signature of Bidder	
Name of Firm	
Date	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 7 of 8

Date:	
Dute.	

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			Relative Humidity: 10% to 85% non-condensing			
			License for Cloud-Managed Network Switch -			
			24-port datac- 2YEARS 6 units			
			Stacking Kit - 6 units			
			Stack Kit for Cloud-Managed Network Switch. Includes			
			two adapters and one 50cm stack cable			
			10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units			
			Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE)			
			data transmission, offering high-speed connectivity for			
			network devices such as switches, routers, and servers.			
			LC Duplex Connector: Uses an LC duplex connector, which			
			allows for bi-directional data transmission over two fibers,			
			enhancing the overall efficiency of the connection.			
			Fiber Type:			
			Multi-Mode Fiber (MMF): Designed for use with multi-			
			mode fiber cables, which are optimized for shorter distances.			
			MMF uses multiple light paths to transmit data, which can			
			reduce the cost of fiber infrastructure over shorter distances.			
			Wavelength:			
			850 nm: Operates at an 850 nm wavelength, a common			
			choice for multi-mode fiber connections, enabling high-speed			
			data transmission over short distances.			T
			Maximum Reach: Up to 300 meters (depending on the fiber			1
			type and quality): The maximum reach depends on the fiber			
			type used and the quality of the installation, but it typically			
			supports distances up to 300 meters over OM3 fiber or up to			
			400 meters over OM4 fiber.	1		
			850 nm: Operates at an 850 nm wavelength, a common			
			choice for multi-mode fiber connections, enabling high-speed	1		1
			data transmission over short distances.			
			Maximum Reach: Up to 300 meters (depending on the fiber			
			type and quality): The maximum reach depends on the fiber	+		1
			type used and the quality of the installation, but it typically			
			supports distances up to 300 meters over OM3 fiber or up to	1		
			400 meters over OM4 fiber.			
			Power Consumption			+
			0°C to 70°C (32°F to 158°F): Suitable for standard operating	+		1
			environments, such as data centers, server rooms, or	+		
			network closets.	+		

Signature of Bidder	
Name of Firm	
Date	

Talisay City, Negros Occidental Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: CHMSU 25-013-0702-G

Name of the Project:

PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE,

FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY

Location of the Project: UNIVERSITY WIDE

page 8 of 8

Date:			
Date.			

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			1000Base SX Multi-Mode - SFP Fiber Transceiver - 6 units			
			Data Rate:			
			1 Gbps (Gigabit Ethernet): Supports 1000Base-SX, delivering			
			1 Gbps data transfer rate for network connections.			
			Transceiver Type:			
			LC Duplex Connector: Uses LC duplex connectors for bi-			
			directional data transmission over two fiber strands, enabling			
			efficient communication between network devices.			
			Fiber Type:			
			Multi-Mode Fiber (MMF): Designed specifically for use with			
			multi-mode fiber cables, optimized for short-range			
			transmission over distances ranging from a few meters up			
			to several hundred meters, depending on the fiber type.			
			Wavelength:			
			850 nm: Operates at an 850 nm wavelength, which is			
			commonly used for short-range, high-speed fiber-optic			
			communication over multi-mode fiber.			
			Maximum Reach:			
			Up to 550 meters: The reach depends on the fiber's grade			
			and quality. Over OM3 multimode fiber, it typically supports			
			distances of up to 550 meters. For OM4 fiber, the distance			
			can be up to 550 meters at 1 Gbps.			
			Power Consumption:			
			0°C to 70°C (32°F to 158°F): Suitable for a wide range of			
			operating environments, including data centers and server			
			rooms, where temperature variations are typically moderate.			
			Data Cabinet 48Ux800Wx1200D, Front single & Rear			
			split Mesh Door, with Side Panels, RAL7021 Black,			-
			Assembled (Build up with Pallet) - 3 units			
	NOTE: At		NOTE: Attach Certificate of Site Inspection			
			-x-x-x-x-x-x-x-x-x-x-x-nothing follows-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x			
			TOTAL ABC = Php 15,000,000.00			-
			PR # 25-624-0528 05-28-2025/A. Torres			
			INCOME 417-164-25-05 05-29-2025			1



Human Resource Management Office

ATTENDANCE GRADUATION CEREMONY June 18, 2025 (Wed), 1:00PM - 5:00PM SMX, Bacolod City

GENERAL ADMINISTRATIVE AND SUPPORT SERVICES

TALISAY CAMPUS

NO.	NAME	SEX	SIGNATURE
1	AGUIRRE, VANESSA R	F	Angelia.
2	ALCONTIN, SHIELA M.	F	J OP
3	ARMONES, CARMELI L.	M	M.
4	CASIS, PRINCESS SHALOOM V.	Ŧ	Cher
5	CEPEDA, GLADYS S.	‡	- Farly th
6	CHAVEZ, DESIRE O.	F	destal
7	DUMABOC, CHRISTINE JOY M		1 xunin
8	ESCANDELOR, GALE FLORENCE B	F	A C
9	FALCUNIT, JADE F	M	
10	FUENTES, LIGAYAE.	F	Konaly
11	GESANTONI, REBECCA C.	+	100
12	GUARDIALAO, DONA JEAN C	f	1127
13	ILIGAN, SHERWIN R.	on.	900
14	ISULAT, AERIEL MARIZ S.		
15	LEEPING, "DC" MAY O.	F	15
16	MATA, PETER JONE V	m	
17	MONES, RYAN JOHN	NA.	270
18	MORENO, JOYCE ANN A.	F	1/1/2
19	PADIROGAO, CYROSE S	7	Manned an
20	PASION, KIENTH DAVID S.	M	- Pri
21	PERASOL DETHER I	FI	1
22	PRADO, ROWENA D.	Ŧ	Carpent
23	REYES, SHEENA D.	F	Out.
24	ROMERO, LORENA D.	- E	My
25	ROSALES-CUAYSING, ANNIE ROSE B.		1 7 0
26	SEDEÑO, JOHN CEDRIC 8.	N	
21	SIASON, RICCI L	М	1
25	TOLEDO, MAY ANN D.	1 1	7 77
	VELA, REMEN JOHN	\$4	Jan .
	SOMOTIO, MICHAEL JASIN	M.	MAC
	Janua DWIN	F	(N)
	CHANCE BITOCOLASSIST	F	

ROWENA D. PRADO

(Name)

For the month of: June 1-30, 2025

Official Hour of Arrival and Departure

CS Form 48

Arrival Depart

Carlos Hilado Memorial State University

ROWENA D. PRADO

(Name)

For the month of: June 1-30, 2025

Official Hour of Arrival and Departure

O.T

Arrival Depart Arrival Depart Arrival Depart

Undertime

Day	A	.M	P	M	τ,ο		Undertime	
	Arrival	Depart	Arrival	Depart	Arrival	Depart	Arrival	Depart
1								
2	97:58	12:14	12:31	05:14		, i		
3	07:53	12:12	12:30	05:19	-			
4	08:06	12:13	12:30	95:29				
5	07:57	12:25	12:30	85:16				
5								
7								
8						:		
9	97:56	12:27	12:31	05:17				
10	98:02	12:28	12:30	95:05				
11	07:57	12:05	12:48	05:09		į		
12								
13	08:00	12:23	12:30	05:06				
14								
15								
16	07:51	12:24	12:30	05:04				
17	97:46	12:27	12:31	05:09		(
18						i i		
19	97:42	12:13	12:34	95:11				
20	07:47	12:27	12:30	05:27		}		
21			12:30	05:07				
22								
23	07:42	12:23	12:33	05:09				····
24	07:52	12:26	12:30	05:07				
25	07:52	12:28	12:33	05:15				
26	07:59	12:11	12:30	05:12		-		
27	07:39	12:06	12:30	05:14		1		•
28			01:25	95:06		- 1		
29								
30	07:48	12:05	12:53	05:11				
31				-			- 	
	<u>-</u>	1.						

I hereby certify on my honor that the above is true and a	orrect. Report of
hours performed, record of which was made daily at the	time of arrival
and departure from the office.	

$\overline{}$				·				
1								
2	07:58	12:14	12:31	95:14				
3	07:53	12:12	12:30	05:19				
4	08:08	12:13	12:30	05:29	1			
5	07:57	12:25	12:30	05:16				
Б			-		1		 	
7								
8								<u> </u>
9	07:56	12:27	12:31	05:17				
10	08:02	12:28	12:30	05:05			<u> </u>	
11	07:57	12:05	12:48	05:09		 		
12						<u> </u>		
13	08:00	12:23	12:30	05:06	<u> </u>	 		
14							·	
15						 -		
16	07:51	12:24	12:30	05:04			 	
17	07:46	12:27	12:31	05:08				
18								
19	07:42	12:13	12:34	05:11				
20	07:47	12:27	12:30	05:27				
21			12:30	05:07				
22								
23	07:42	12:23	12:33	05:09				<u> </u>
24	07:52	12:26	12:30	05:07		-		
25	07:52	12:28	12:33	95:15		-		
26	07:59	12:11	12:30	05:12				,
27	07:39	12:06	12:30	D5;14				
28			01:25	05:06				·
29								
30	07:48	12:05	12:53	05:11				
31								

I hereby certify on my honor that the above is true and correct. Report of hours performed, record of which was made daily at the time of arrival and departure from the office.

Employee's Signature	į
Verified as to prescribed office ho	urs

Employee's Signature
Verified as to prescribed office hours

į	n	-(7	ia	rg	ε