





VISAYAS STATE UNIVERSITY Republic of the Philippines

Visca, Baybay City, Leyte

PURCHASE REQUEST

PPMP No.: 150-4-1535-2024-10-0-3

Dept./Office: PCC

Section/End-User: Mariles V. Bulawan

Category: IT Supplies and Equipment PR No.: TF-2024-08-01586

Project Title/Code: PCC-407/ Center Operation FY 2024

> Duration: 2024-01-01 Date: 08-20-2024

2024-12-31

Fun	Funding Source: Trust Fund		Cente	Center Operation FY 2024	024	
Item #	Item Description	Cnit	Qty	Unit Cost	PAR/ICS	Total Cost
Lun	24-Port Gigabit Stackable L3 Managed PoE+ Switch with 4 10G Slots, 24x 10/100/1000 Mbps PoE+ RJ45 Po	c n:	_	49,999.00		49,999.00

Specification:

HARDWARE FEATURES

24× 10/100/1000 Mbps PoE+ RJ45 Ports

4× 10G SFP+ Slots

2× USB 2.0 Ports

1× RJ45 Console Port

Interface

1× USB Type-C Console Port

1× RJ45 Management Port

Fan Quantity Four Field-replaceable and Hot-swappable Fans

Two Field-replaceable and Hot-swappable Power Supply Modules (100-240 VAC, 50/60 Hz)

Power Supply Shipping with one PSM500-AC module by default, and another field-replaceable redundant

power supply requires purchasing separately.

Standard: 802.3at/af compliant

PoE Ports (RJ45) PoE+ Ports: 24 Ports, up to 30 W per port

PoE Power Budget: up to 720 W*

*The total PoE budget varies with the power supply modules.

17.3 × 16.5 × 1.7 in (440 × 420 × 44 mm)

Dimensions (W x

D×H)

Mounting Rackmountable

Max Power 42.9 W (110 V/60 Hz) (With no PD connected)

Consumption 916.6 W (110 V/60 Hz) (With 720 W PD connected and powered by 2× PSM500-AC)

Max Heat 146.29 BTU/hr (110 V/60 Hz) (With no PD connected)

Dissipation 3,125.61 BTU/hr (110 V/60 Hz) (With 720W PD connected and powered by 2× PSM500-AC)

PERFORMANCE

Switching

Capacity 128 Gbps per Unit

Stacking Number: 4

Stacking Stacking Port: 10G SFP+ Slot (all uplink ports can be used as stacking ports)

Stack Bandwidth: 20 Gbps Per Port (Full-Duplex)

Packet

Forwarding Rate 95.2 Mpps

MAC Address 32 K

Packet Buffer 3 MB

Memory

Jumbo Frame 9 KB

SOFTWARE FEATURES

Quality of Service Various QoS features including Class of Service, Bandwidth Control, Voice VLAN, etc.

L3 Features IP Interfaces, Static Routing, RIP, OSPF, VRRP, DHCP Server/Relay, ARP, IPv6 support, etc.

L2 and L2+

Features Link Aggregation, Spanning Tree Protocol, IGMP/MLD Snooping, Multicast support, etc

Advanced

Features Device Discovery, Batch Configuration, Firmware Upgrading, Network Monitoring, etc

ISP Features

YLAN VLAN management including 802.1Q VLANs, VLAN VPN, Voice VLAN, Private VLAN, etc. Ethernet Link OAM, Layer 2 Protocol Tunneling, DLDP, DDM, sFlow

Security Various security features such as Port Isolation, DoS Defend, ARP Inspection, 802.1X, etc.

MANAGEMENT

Omada App Yes, requires Omada Hardware/Cloud-Based/Software Controller

Centralized

Management Omada Cloud-Based/Hardware/Software Controlle

Cloud Access

Yes, requires Omada Hardware/Cloud-Based/Software Controller

Zero-Touch

Provisioning Yes, requires Omada Cloud-Based Controller

Management

Web-based GUI, CLI, SNMP, SDM Template, DHCP/BOOTP Client, etc

OTHERS

Package Contents SG6428XHP Switch, Power Cord, RJ45 Console Cable, Installation Guide, Rackmount Kit,

Rubber Feet

System

Requirements Compatibility with various operating systems

Environment Operating and storage temperature/humidity specifications

N Specification: Printer, All-in-One Refillable Ink Tank Borderless Colored Inkjet unit N 16,000.00 LETUZ M. SUDARIA 32,000.00

Printer Type: Print, Scan, Copy, Fax with ADF

Printing Technology

- Printer Language: ESC/P-R, ESC/P Raster
- Print Direction: Bi-directional printing
- Technology: PrecisionCore Printhead
- Nozzle Configuration: 400 x 1 nozzles Black, 128 x 1 nozzles per Color (Cyan, Magenta, Yellow)
- Minimum Droplet Size: 3.3 pl
- Maximum Resolution: 4800 x 1200 dpi (with Variable-Sized Droplet Technology)
- Automatic 2-sided Printing: No

Print Speed

- Photo Default 10 x 15 cm / 4 x 6 " *2: Approx. 69 sec per photo (Border) / 90 sec per photo (Borderless)
- Draft, A4 (Black / Color): Up to 33.0 ppm / 20.0 ppm
- ISO 24734, A4 Simplex (Black / Color): Simplex: Up to 15.0 ipm / 8.0 ipm
- First Page Out Time from Ready Mode (Black / Color): Approx. 10 sec / 16 sec

Copying

- Maximum Copies from Standalone: 99 copies
- Maximum Copy Resolution: 600 x 600 dpi
- Maximum Copy Size: Legal
- Copy Quality: Standard / High
- ISO 29183, A4 Simplex Flatbed (Black / Color): Up to 10.8 ipm / 5.5 ipm
- ISO 29183, A4 ADF (Black / Color): Approx. 60 sec / 82 sec

Scanning

- Scanner Type: Flatbed color image scanner
- Sensor Type: CIS
- Optical Resolution: 1200 x 2400 dpi
- Maximum Scan Area: 216 x 297 mm
- Scanner Bit Depth (Color): 48-bit input, 24-bit output
- Scanner Bit Depth (Grayscale): 16-bit input, 8-bit output
- Scanner Bit Depth (Black & White): 16-bit input, 1-bit output

Scan Speed

- Scan Speed (Flatbed / ADF (Simplex)): 200dpi, Black: 12 sec / Up to 4.5 ipm
- 200dpi, Color: 29 sec / Up to 4.5 ipm

ADF Specifications

- Support Paper Thickness: 64 95 g/m
- Paper Capacity: 30 sheets

Fax Function

- Type Of Fax: Walk-up Black-and-White and Color Fax Capability
- Receive Memory / Page Memory: 1.1 MB, Page memory up to 100 pages
- Error Correction Mode: ITU-T T.30
- Fax Speed (Data Transfer Rate): Up to 33.6 kbps, Approx. 3 sec/page
- Fax Resolution: Up to 200 x 200 dpi
- Transmission Paper Size (Flatbed): Letter, A4

- Transmission Paper Size (ADF): A4, Letter, 8.5 x 13", Legal, Oficio 9, Mexico-Oficio, Indian-Legal
- Receiving Paper Size: A4, Letter, Legal
- Speed Dial / Group Dial: Up to 100 numbers, 99 groups
- Fax Features: PC Fax (Transmission / Receive), Automatic Redial, Address book, Broadcast Fax (Mono Only), Transmit Re servation, Polling Reception

Paper Handling

- Number of Paper Trays: 1
- Standard Paper Input Capacity: Up to 100 sheets of Plain Paper (80 g/m2), 20 sheets of Premium Glossy Photo Paper
- Output Capacity: Up to 30 sheets of Plain Paper (80 g/m2), Up to 20 sheets of Premium Glossy Photo Paper
- Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24")
- Paper Feed Method: Friction feed
- Paper Size: A4, A5, A6, B5, B6, 100 x 148 mm, Indian-

Legal (215 x 345 mm), Letter, 8.5 x 13", Legal 8.5 x 14",3 x 5", 4 x 6", 5 x 7", Envelopes #10, DL, C6

Print Margin: 0 mm top, left, right, bottom via custom settings in printer driver*3

Supported OS and Applications

Operating System Compatibility:

Noise Level

- PC Printing/ Premium Glossy Photo Paper Best Photo: Sound Power (Black / Color) 5.3 / 5.3 B(A), Sound Pressure (Black / Color) 38 / 39 dB(A)
- PC Printing / Plain Paper Default*4: Sound Power (Black / Color) 6.7 / 6.0 B(A), Sound Pressure (Black / Color) 54 / 47 dB(

Dimensions and Weight:

- Dimensions (W x D x H): 375 x 347 x 237 mm
- Weight: 5.2 kg

Electrical Specifications

- Rated Voltage: AC 220 240 V
- Rated Frequency: 50 60 Hz
- Operating: 12 W
- Sleep: 0.9 W
- Power Off: 0.2 W
- Standby: 7.1 W

Interface

- USB: USB 2.0
- Network: Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct
- Network Protocol: TCP/IPv4, TCP/IPv6
- Network Management Protocols: SNMP, HTTP, DHCP, APIPA, PING, DDNS, mDNS, SLP, WSD, LLTD

Printer Software

Operating System Compatibility:

Control Panel

LCD Screen: 1.44" Color LCD Panel

Key Features

- Multifunction printer: Print, copy, scan, fax wirelessly with LCD screen
- Ultra-low-cost printing: Save up to 90% on printing costs
- Up to 3 years of ink in the box: Includes 6,600 pages in black and 5,900 in color
- Hassle-free ink tank system: Enjoy mess-free refills with key-lock bottles and front-facing tanks
- Smart Panel app: Wirelessly set up, monitor, print, scan, copy and more from your smart device

Specification:

VOIP Phone

unit

15,000.00

15,000.00

- Audio Features
- HD voice: HD handset, HD speaker
- Smart Noise Filtering
- Narrowband codec: PCMU (G.711A), PCMA
- (G.7117), G.723.1, G.729, G.729A, G.729B,
- G.729AB, G.726, iLBC
- · DTMF: In-band, Out-of-band (RFC 2833) and SIP
- NFO
- Full-duplex hands-free speakerphone with AEC
- VAD, CNG, AEC, PLC, AJB, AGC
- Phone Features
- 2 VoIP accounts
- Call hold, mute, DND
- One-touch speed dial, hotline
- Call forward, call waiting, call transfer
- Group listening, SMS, emergency call
- Redial, call return, auto answer
- Local 5-way conferencing
- Direct IP call without SIP proxy
- Ring tone selection/import/delete
- Set date time manually or automatically
- Dial plan
- XML Browser, action URL/URI
- Integrated screenshots
- · RTCP-XR, VQ-RTCPXR
- Enhanced DSS Key
- Directory
- Loal phonebook up to 1000 entries
- Black list
- XML/LDAP remote phonebook

- Smart dialing
- Phonebook search/import/export
- Call history: dialed/received/missed/forwarded
- IP-PBX Features

- Busy Lamp Field (BLF), Bridged Line Apperance
- (BLA)
- Anonymous call, anonymous call rejection
- Hot-desking, voice mail
- Flexible seating
- Call park, call pickup
- Executive and Assistant
- Centralized call recording
- Visual voice mail
- Call recording
- Display and Indicator
- 2.3" 132x64-pixel graphical LCD with backlight
- LED for call and message waiting indication
- Dual-color (red or green) illuminated LEDs for
- line status information
- Intuitive user interface with icons and soft keys
- Multilingual user interface
- Caller ID with name and number
- Power saving
- Feature keys
- 2 line keys with LED
- 6 features keys: transfer, message, headset,
- redial, mute, hands-free speakerphone
- 5 navigation keys
- Volume control keys
- Interface
- Dual-port Gigabit Ethernet
- Power over Ethernet (IEEE 802.3af), class 1*
- 1 x RJ9 (4P4C) handset port
- 1 x RJ9 (4P4C) headset port
- Other Physical Features
- Color: Classic Grey
- Wall mountable
- External Yealink AC adapter
- AC 100-240 V input and DC 5 V/0.6 A output
- Power consumption (PSU): 2-3 W
- Power consumption (PoE): 3-4 W
- Dimension (W x D x H x T):
- 188 x 189 x 162 x 50 mm
- Operating humidity: 10-95%
- Operating temperature: -10 to +45°C (+14 to
- 113°F)
- +158°F)

Storage temperature: -30 to +70°C (-22 to

Management

- Configuration: browser/phone/auto-provision
- Auto provision via FTP/TFTP/HTTP/HTTPS for
- mass deploy

- Auto-provision with PnP
- Zero-sp-touch, TR-069
- Phone lock for personal privacy protection
- Reset to factory, reboot
- Package tracing export, system log
- Network and Security
- SIP v1 (RFC2543), v2 (RFC3261)
- Call server redundancy supported
- NAT traversal: STUN mode
- Proxy mode and peer-to-peer SIP link mode
- IP assignment: static/DHCP
- HTTP/HTTPS web server
- Time and date synchronization using SNTP
- UDP/TCP/DNS-SRV (RFC 3263)
- QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS
- DSCP
- SRTP for voice
- Transport Layer Security (TLS 1.3)
- HTTPS certificate manager
- AES encryption for configuration file (AES256)
- Digest authentication
- · OpenVPN, IEEE802.1X, L2TP VPN
- . IPv6
- · LLDP/CDP/DHCP VLAN
- ·ICE
- WPA2/WPA3
- Secure boot
- GARP (Generic Attribute Registration Protocol)

TOTAL

NOTE: Must be compatible with existing Yearstar S300 Server for auto provisioning

96,999.00

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