



Republic of the Philippines
VISAYAS STATE UNIVERSITY
Visca, Baybay City, Leyte

SCAN HERE



PR-2023-0614-123147

PURCHASE REQUEST

PPMP No. : **58-5-1083-2023-2-0-3**

PR No.: **GF-2023-06-00986**

Date: **06-14-2023**

Dept./Office: **OP**

Category: **IT Supplies and Equipment**

Section/End-User: **Les Andre B. Pamaos**

Funding Source: **General Fund - MOOE**

Project Title/Code: **OP-2023-office supplies**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Network Switch (#1)	unit	1	11,000.00		11,000.00

Specification:

Standards and Protocols IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.3ad, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p

Interface 8 10/100/1000Mbps RJ45 ports (Auto Negotiation/Auto MDI/MDIX)

2 Gigabit SFP Slots

1 RJ45 Console Port

1 Micro-USB Console Port

Network Media 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)

100BASE-TX/1000Base-T: UTP category 5, 5e, 6 or above cable (maximum 100m)

1000BASE-X: MMF, SMF

Fan Quantity Fanless

Physical Security Lock Yes

Power Supply 100?240VAC, 50/60Hz

Dimensions (W x D x H) 11.6 x 7.1 x 1.7 in. (294 x 180 x 44 mm)

Mounting Rack Mountable

Max Power Consumption 6.836 W (220 V/50 Hz)

Max Heat Dissipation 23.32 BTU/h

PERFORMANCE

Bandwidth/Backplane 20Gbp

Packet Forwarding Rate 14.9Mpps

MAC Address Table 8k

Packet Buffer Memory 4.1 Mbit

Jumbo Frame 9216 Bytes

SOFTWARE FEATURES

Quality of Service Support 802.1p CoS/DSCP priority

Support 4 priority queues

Queue scheduling: SP, WRR, SP+WRR

Port/Flow- based Rate Limiting

Voice VLAN

L2 Features IGMP Snooping v1/v2/v3

MLD v1/v2 Snooping

802.3ad LACP (Up to 8 aggregation groups, containing 8 ports per group)

Spanning Tree STP/RSTP/MSTP

Port isolation

BPDU filtering/guard

TC/Root protect

Loop back detection

802.3x Flow Control

LLDP/LLDP-MED

DHCP VLAN Relay

L2PT

VLAN Supports up to 4K VLANs simultaneously (out of 4K VLAN IDs)

MAC/Protocol-based VLAN

GARP/GVRP

VLAN VPN (QinQ)

Management VLAN configuration

Access Control List L2?L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports, 802.1p, DSCP, protocol and VLAN ID;

Time Range Based

Security IP-MAC-Port-VID Binding

AAA

DHCP Snooping

IEEE 802.1X Port/MAC Based authentication, Radius, Guest VLAN

DoS Defend

Dynamic ARP inspection (DAI)

SSH v1/v2

SSL v2/v3/TLSv1

Port Security

Broadcast/Multicast/Unknown-unicast Storm Control

PPPoE

IPv6 Dual IPv4/IPv6 stack

Multicast Listener Discovery (MLD) Snooping

IPv6 neighbor discovery (ND)

Path maximum transmission unit (MTU) discovery

Internet Control Message Protocol (ICMP) version 6

TCPv6/UDPv6

IPv6 Applications DHCPv6 Client

Ping6

Tracert6

Telnet(v6)

IPv6 SNMP

IPv6 SSH

IPv6 SSL

Http/Https

IPv6 TFTP

Management Web-based GUI and CLI management

SNMP v1/v2c/v3, compatible with public MIBs and TP-LINK private MIBs

RMON (1, 2, 3, 9 groups)

DHCP/BOOTP Client, DHCP Snooping, DHCP Option82

CPU Monitoring

Port Mirroring

Dual Image

Time Setting: SNTP

Firmware Upgrade: TFTP & Web

System Diagnose: VCT

SYSLOG & Public MIBS

OTHERS

Certification CE, FCC, RoHS

Package Contents Switch; Power Cord; Quick Installation Guide; Resource CD; Rackmount Kit; Rubber Feet

System Requirements Microsoft® Windows® 10, 8, 7, Vista™, XP or MAC® OS, NetWare®, UNIX® or Linux.

Environment Operating Temperature: 0?~40? (32?~104?);

Storage Temperature: -40?~70? (-40?~158?)

Operating Humidity: 10%~90% non-condensing

Storage Humidity: 5%~90% non-condensing

2	Wifi Access Point (Existing fleet of VSU Access Points)	unit	1	12,000.00		12,000.00
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Specification:

UAP-nanoHD

Dimensions: 160 x 160 x 32.65 mm (6.30 x 6.30 x 1.29")

Weight: 300 g (10.6 oz)

With Mounting Kits: 315 g (11.1 oz)

Networking Interface: (1) 10/100/1000 Ethernet Port

Buttons: Reset

Power Method: 802.3af PoE

Power Supply: UniFi Switch (PoE)

Power Save: Supported

Beamforming: Supported

Maximum Power Consumption: 10.5W

Supported Voltage Range: 44 to 57VDC

TX Power

2.4 GHz: 23 dBm

5 GHz: 26 dBm

MIMO

2.4 GHz: 2x2

5 GHz: 4x4

Radio Rates

2.4 GHz: 300 Mbps

5 GHz: 1733 Mbps

Antennas

2.4 GHz: (2) Single-Port, Single-Polarity Antennas, 2.8 dBi each

5 GHz: (2) Single-Port, Dual-Polarity Antennas, 3 dBi each

Wi-Fi Standards: 802.11 a/b/g/n/r/k/v/ac/ac-wave2

Wireless Security: WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES), 802.11w/PMF

BSSID: 8 per Radio

Mounting: Wall/Ceiling (Kits Included)

Operating Temperature: -10 to 70 C (14 to 158 F)

Operating Humidity: 5 to 95% Noncondensing

Certifications: CE, FCC, IC

Advanced Traffic Management

VLAN: 802.1Q

Advanced QoS: Per-User Rate Limiting

Guest Traffic Isolation: Supported

WMM: Voice, Video, Best Effort, and Background

Concurrent Clients: 200+

Supported Data Rates (Mbps)

Standard	Data Rates
802.11a	6,9,12,18,24,36,48,54 Mbps
802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT 20/40)
802.11ac	6.5 Mbps to 1.7 Gbps (MCS0-MCS9 NSS1/2/3/4, VHT 20/40/80)

58 Mbps to 1.7 Gbps (MCS0-MCS9 NSS1/2, VHT 160)					
802.11b	1, 2, 5.5, 11 Mbps				
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps				
TOTAL					23,000.00
Purpose: Office use					
Checked by:  DIONESIO I. ESTUPA			Funds Available:  ALICIA M. FLORES <i>op./lv</i>		
TWG - IT Supplies and Equipment			HEAD, BUDGET OFFICE		
Signature:	Requested by: 		Noted by: 		Approved by: 
Printed Name:	LES ANDRE B. PAMAOS		ALLEN GLENNIE P. LAMBERT		EDGARDO E. TULIN
Designation:	END USER		UNIT HEAD, PROJECT LEADER		PRESIDENT, VSU