



PURCHASE REQUEST

Dept./Office: **DAS**PR #: **STF-2021-03-00070**Date: **03-11-2021**Section/End-User: **Policarpo C. Gumba Jr.**Category: **IT Supplies and Equipment**Funding Source: **Special Trust Fund**Project Title/Code: **DAS LABORATORY FEES/SHARE**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Unifi 500W PoE+ Switch	unit	1	35,000.00	MANUEL D. GACUTAN JR.	35,000.00

Specification:

24 ports PoE+ Switch 500W

Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports

Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band

Total Non-Blocking Throughput : 26 Gbps

Switching Capacity: 52 Gbps

Forwarding Rate: 38.69 Mpps

MAC Address Table: 16384

Maximum Aggregations: 6

Monitoring Sessions 1

Maximum VLANs 255

Power Method 100-240VAC/50-60 Hz, Universal Input

Power Supply AC/DC, Internal, 500W DC

Max. Power Consumption: Including PoE Output: 500W Excluding PoE Output: 30W

ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV

Shock and Vibration ETSI300-019-1.4 Standard

Operating Temperature -5 to 40° C (23 to 104° F)

Operating Humidity 5 to 95% Noncondensing

Certifications CE, FCC, IC

PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)

Max. PoE+ Wattage per Port by PSE 34.2W

Voltage Range 802.3at Mode 50-57V

Max. Passive PoE Wattage per Port 17W

24V Passive PoE Voltage Range 20-27V

Should be compatible with existing Unifi Controller

1 year warranty

2	UPS Battery Backup	unit	1	10,000.00	MANUEL D. GACUTAN JR.	10,000.00
---	--------------------	------	---	-----------	-----------------------	-----------

Specification:

- 1500AV/900w
- 6 battery backup sockets
- USB, coax, phone/network, and serial ports
- Automatic Voltage Regulation (AVR)
- LCD screen
- at most 4 hours charging time

3	UTP Cable (300 meters)	box	1	7,000.00		7,000.00
---	------------------------	-----	---	----------	--	----------

Specification:

- UTP Cable cat6
- Cat 6 Cable UTP Unshielded AWG24
- Gray Data LAN Cable
- 1000 feet 305m 1000ft.

4	Wireless Access Point	unit	2	9,900.00	MANUEL D. GACUTAN JR.	19,800.00
---	-----------------------	------	---	----------	-----------------------	-----------

Specification:

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

Weight

With Mounting Kits

300 g (10.6 oz)

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

5 GHz

23 dBm

26 dBm

MIMO

2.4 GHz

5 GHz

2x2

4x4

Radio Rates

2.4 GHz

5 GHz

300 Mbps

1733 Mbps

Antennas

2.4 GHz

5 GHz

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

(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

Should be compatible with existing UniFi Controller

TOTAL

71,800.00

Purpose: Office use

Checked by:

MICHAEL ANTHONY JAY B. REGIS

TWG - IT Supplies and Equipment

Funds Available:

MYRNA S. PANCITO

HEAD, BUDGET OFFICE

Signature:

Printed Name:

Designation:

Requested by:

POLICARPO C. GUMBA JR.

END USER

Noted by:

MANUEL D. GACUTAN JR.

UNIT HEAD, PROJECT LEADER

Approved by:

EDGARDO E. TULIN

PRESIDENT, VSU