Description	Unit price	Amount	Total Price
24-Port Managed Gigabit LAN Switch	35,000	1	35,000
			35,000

24-Port Managed Gigabit LAN Switch

Network Standards:	IEEE 802.3
	IEEE 802.3u
	IEEE 802.3ab
	IEEE 802.3z
	IEEE 802.3ae
	IEEE 802.3x
	IEEE 802.3ad
	IEEE 802.3az
	IEEE 802.1D
	IEEE 802.1w
	IEEE 802.1Q/p
	IEEE 802.1X
Memory:	128 MB
LEDs:	System (blue/yellow), Link/Act(green)

System Power Consumption without PoE+:

110V: 19.4W

220V: 19.71W

Forwarding Rate:	41.67 Mpps
Switching Capacity:	56 Gbps
MAC Address Table Size:	16K
Jumbo Frame (FE, GE):	9K
Dimensions (LxWxH):	440 x 200 x 44.45 mm (17.32 x 7.87 x 1.75 in.)
Weight:	2.43 kg (5.36 lbs.)
Power Input:	100 – 240V
	50-60 Hz
	(0.7A max)
Operating Temperature:	0 to 50° C (32 to 122° F)
Storage Temperature:	-20 to 70° C (-4 to 158° F)
Operating Humidity:	10 to 90% RH
Storage Humidity:	10 to 90% RH (non-condensing)
Spanning Tree:	IEEE 802.1d Spanning Tree, IEEE 802.1w Rapid Spanning Tree
Link Aggregation:	IEEE 802.3ad LACP, up to 4 groups with up to 8 ports per group
VLAN:	Port-based and IEEE 802.1Q tag-based VLANs
Auto Voice VLAN:	VLAN voice traffic is automatically assigned by OUI to a voice-specific VLAN and treated with appropriate levels
IGMP Snooping:	IGMP (v1/v2/v3) snooping provides for fast client joins and leaves of multicast streams and limits bandwidth-intensive video traffic to only the requesters; supports 256 multicast groups
HOL Blocking Prevention:	Head-of-line (HOL) blocking prevention
Port Mirroring:	Traffic on multiple ports can be mirrored to another port for analysis with a network analyzer
Security Features:	IEEE 802.1X radius authentication
	DHCP snooping
	IP-MAC-Port binding
	IP source guard
	ARP inspection
	STP root guard
	STP BPDU guard
	DHCP relay
	Port security supports limited dynamic lock and locked MAC address,

	Management access control
Storm Control:	Broadcast, unknown-unicast, and multicast
Access Control:	Support up to 512 rules for enhanced security and/or advanced QoS policy: allow, deny, or rate limit based on Layer1 to 4 protocol fields at packet header level with MAC ACL and IP ACL
RMON:	Embedded remote monitoring (RMON) software agent support for enhanced traffic c management, monitoring, and analysis
Management Interface:	HTTP
	HTTPS
Other Management:	Telnet (menu-driven), DHCP client, system log, configuration unload and backup via HTTP or TFTP, PING, dual images, SNTP
SNMP:	Version 1
	Version 2c
QoS- Class of Service:	Port-based, IEEE 802.1p priority-based, IPv4/v6 IP DSCP-based
Combo Ports (RJ45 + SFP):	2 combo on ports g27, g28
Copper FE/GE Ports (RJ45):	g01 – g13, g14 – g26
Green Power Mode:	EEE+, Short Reach + Energy Detect
QoS- Priority Levels:	4 hardware queues
QoS- Scheduling:	Priority queuing and weighted round robin (WRR)
Total System Ports:	28GE

Description	Unit price	Amount	Total Price
A3 Multi-function Printer Scanner with Additional Ink Supply	50,000	1	50,000
			50,000

A3 Multifunction Printer-Scanner and Ink Supply

Functions:	Print, scan, copy, fax
Type:	Inkjet
Features:	Automatic 2-sided printing
	Photo printing
	Direct printing
	Network printing
Connection:	Interface: USB
	LAN: Ethernet UTP Cat 5
	Wireless LAN:

- IEEE 802.11b/g/n (Infrastructure)
- IEEE 802.11g/n (Wi-Fi Direct)

Wireless Setup Support Utility: Yes

Internal Memory:	At least 128 MB
LCD:	At least 2.7 in. (67.5 mm) TFT Color Touchscreen LCD
Power Source:	AC 220 to 240 V 50/60 Hz
Power Consumption:	Copying: approx. 27 W
	Ready: approx. 6.0 W
	Sleep: approx. 1.6 W
	Power Off: approx. 0.04 W
Document Size:	ADF Width: 105 to 148 mm
	ADF Length: 148 to 431.8 mm
	Scanner Glass Width: max. 297 mm
	Scanner Glass Length: max. 431.8 mm
Scanner:	Scans in color and monochrome
	Color Depth:

- 48bit Color processing (Input)
- 24bit Color processing (Output)

Grayscale:

- 16bit Color processing (Input)
- 8bit Color processing (Output)

TWAIN Compliant: Yes

- Windows Vista, Windows 7, Windows 8, Windows 10
- OS X v10.9.5, 10.10.x,10.11.x

WIA Compliant: Yes

- Windows Vista, Windows 7, Windows 8, Windows 10

ICA Compliant: Yes

- OS X v10.9.5, 10.10.x,10.11.x

Resolution:

- Up to 19200 × 19200 dpi (interpolated)
- Up to 1200 × 2400 dpi (optical from Scanner Glass)
- Up to 600 × 600 dpi (optical from ADF)

Scanning Width and Length

For single-sided document:

a. Scanner Glass
- Width: up to 295 mm
- Length: up to 429.8 mm

b. ADF
- Width: up to 295 mm
- Length: up to 429.8 mm

For 2-sided document:

a.   ADF
-      Width: up to 295 mm
-      Length: up to 429.8 mm

Printer: Inkjet Printer

Print Speed: 22/20 ipm

Resolution: up to 1200×4800 dpi

Paper Type: Plain, Inkjet, Glossy (cast/resin), Recycled

Printing Width:

     A3: 291 mm [297 mm borderless]

     Ledger: 273.4 mm [279.4 mm borderless]

Borderless:

     A4, Letter, A3, Ledger, A6, Photo (10 x 15 cm), Photo L (9 x 13 cm), Photo 2L (13 x 18 cm), Index card (13 x 20 cm)

2-Sided:

     A3, Ledger, JIS B4, Legal, Folio, A4, Letter, Executive, A5, JIS B5, JIS B6, Mexico Legal, India Legal

Additional: At least 2 sets Ink Supply: BK, C, M, Y

Warranty: At least 1-year Warranty and available service center Warranty

i. Charge to Graphic Tablet with Stylus pen and Carry Case

Description	Unit price	Amount	Total Price
Graphic Tablet with Stylus Pen and extra Pen Nibs	30,000	1	30,000
Carrying Case for Graphic Tablet	5,000	1	5,000
			35,000

Graphic Tablet with Stylus Pen and Carry Case

Graphic Tablet

Active area:	around 8.7" x 5.8"
Dimensions:	13.2" x 8.5" x 0.3"
Controls and Performance:	
	Multi-touch
	Tilt: ± 60 degrees/levels
	Pressure levels: approx. 8192 levels
	Report Rate: ≥ 200 pps/rps
Stylus:	Pressure-sensitive, wireless, battery-free
Connection:	USB Type A (preferably with Bluetooth)
Compatibility:	Windows 7 or higher
Additional:	Stylus pen
	Extra pen nib

Carry Case

Description:	Medium sized carry case for a graphic tablet
	Black nylon carrying case
	Elastic pen loop
	Mouse/USB cable pouch
	Fully lined
	Elastic pen loop, separate internal pockets for your mouse and USB cable
	A soft inner lining prevents scratches
	Thick inner padding
	Waterproof
	Shockproof
Dimensions:	Around 14" x 9" x 0.7s"
Suitability:	Fits with the chosen graphic tablet

| 1 unit | **Server with Operating System**
Server type: at least 2U rack type
Drive bays: at least 8 bays for 3.5" Hard Disk
Processor: at least 2 processors each having at least 8 cores, 16 threads, 2.10 GHz frequency, 20 MB Cache
RAM: at least 32 GB DDR4 registered memory
Hard Drives: at least 4 x 1 TB SATA 6Gb/s, Hot-swappable, 7200RPM HDD
Primary OS Drive: at least 512 GB SATA 6Gb/s SSD
Network adaptor: at least Gigabit LAN controller with 1 x Gigabit RJ45 management port
Power supply: at least 800 Watts, redundant
Hardware RAID/RAID CARD: must be capable of RAID 0,1,5 and 10
Warranty: at least 3-years warranty parts and service

Inclusive Software: Windows Server 2019
Inclusive Accessories: | 340,000 | 340,000 | Server with accessories | |

	1 set Mouse, Keyboard and Mousepad (compatible with the server and OS) Monitor: at least 21.5 inches, 1080p resolution, VGA/HDMI connection (compatible with the server and OS)			
2 pcs	**UPS** Output Power Capacity: at least 865 Watts / 1500 VA Max Configurable Power: at least 865 Watts/ 1500 VA Nominal Output Voltage: 230V Output Frequency (sync to mains): 50/60Hz +/- 3 Hz Topology: Line Interactive Waveform Type: Stepped approximation to a sinewave Output Connections: (5) IEC 320 C13 (Battery Backup) (5) IEC 320 C13 (Surge Protection) (2) IEC Jumpers (Battery Backup) Nominal Input Voltage: 230V Input Frequency: 50/60 Hz +/- 3 Hz (auto sensing) Input Connections: IEC-320 C14 Input voltage range for main operations: at least 176 - 294V Input voltage adjustable range for mains operation: at least 156 - 300V Input Breaker Capacity: 10 A Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof Typical recharge time: at most 8 hour(s) Interface Port(s): Optional Simple Signaling RS232 cable, USB Control panel: Multi-function LCD status and control console Audible Alarm: Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm Surge energy rating: 441 joules Filtering: Full time multi-pole noise filtering: 10% of IEEE surge let-through: zero clamping	32000	64000	Server with accessories
	response time: instantaneous Standard warranty: at least 1 year repair or replacement			