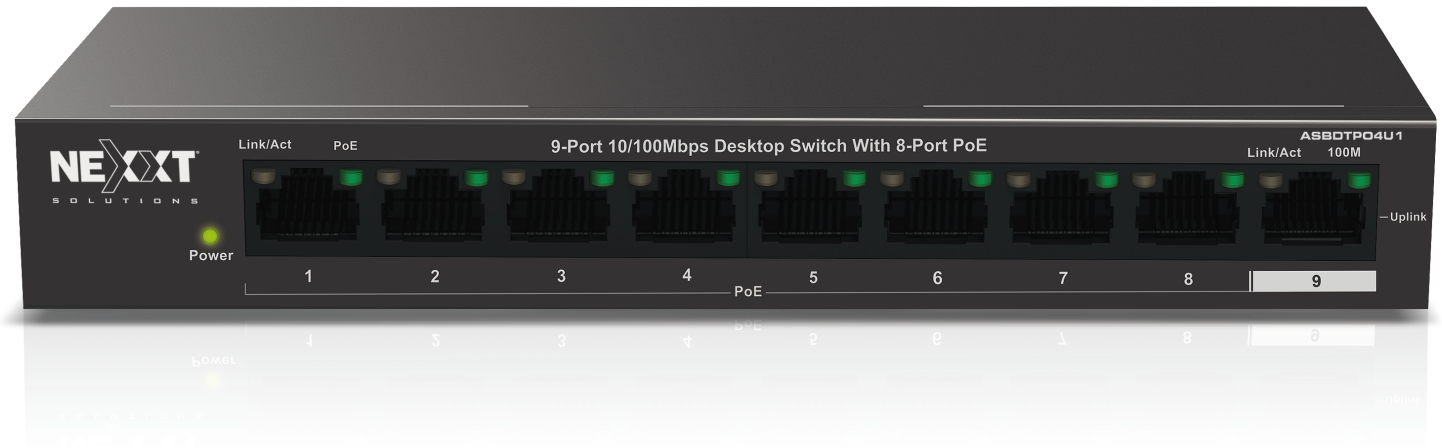
NEXXT SOLUTIONS

CONNECTIVITY

3 YEAR WARRANTY

nexxtsolutions.com/warranty



Vertex900+

9-PORT | POE+ FAST ETHERNET DESKTOP SWITCH

Model: **ASBDTP04U1**

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1. Introduction

The Vertex900+ is an unmanaged compact desktop switch, especially designed for the busy corporate environment that requires high performance network connectivity along with advanced internet capabilities. It features 9-ports which can operate at 10/100Mbps. Ports 1-8 support IEEE 802.3at and IEEE 802.3af PoE standard, capable of providing a maximum of 30W to a port with a total of 58W available to deliver across the whole device. Transmission mode allows this switch to push a signal up to 820ft across a network cable. The Vertex900+ incorporates a professional lightning protection design which contributes to make this switch the ideal choice to protect your network and improve overall performance.

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1.1 Highlights

- 9-port 10/100Mbps switch
- Up to 8 IEEE 802.3af/802.3at ports
- 58W maximum PoE budget
- 1.8Gbps backplane bandwidth
- Extender mode with up to 820ft transmission distance
- Advanced loop prevention algorithm
- IEEE802.3x full duplex and half duplex back pressure flow control
- Metal housing
- Sleek design, ideal for wall mounting or desktop installation
- Integrated lightning protection
- Store and forward technology
- Three-year warranty

1.2 Package content

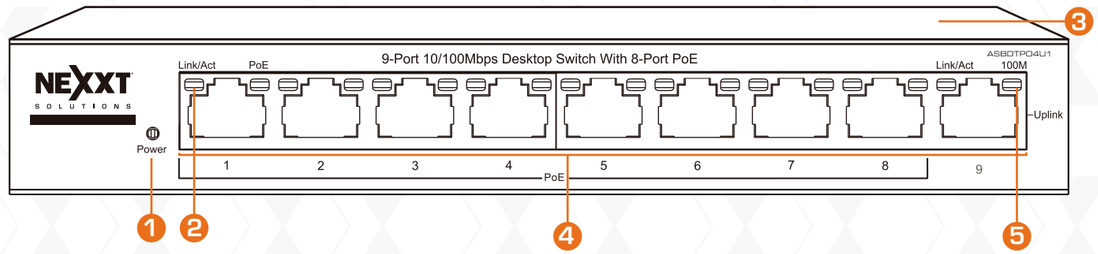
Upon opening the box, ensure that the following items are included:

- 9-port switch
- 110/220V power adapter
- Power cable
- Wall mounting screws
- User guide

If any of the listed items are missing or damaged, please contact the reseller who you purchased the switch from for a replacement.

1.3 Front and rear panel overview

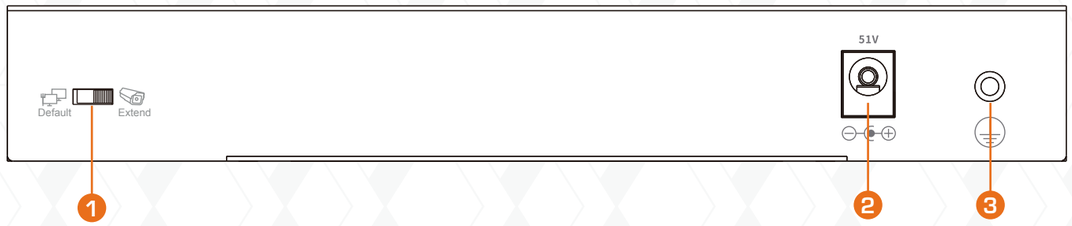
The front panel features nine 10/100Mbps ports, with the corresponding number of lights to display the activity on each one, plus one indicator light for power.



1. Power indicator light
2. Link/Act indicator
3. Metal housing
4. 9-10/100Mbps ports and 8 PoE ports
5. 100M indicator

Rear panel overview

On the rear panel, there is the AC power jack with the input range marked in the device.



1. Network mode switch
2. AC input
3. Grounding terminal or protective ground screw

Note: Please use the supplied power cord only. The use of any other cable may damage the unit and void the warranty.

1.4 LED indicators

LED indicators provide information about the connection and Link/ACT status of the switch. They also facilitate activity monitoring and troubleshooting the performance of the network.

LED indicator	Status	Description
Power	Solid	The switch is properly connected to the power supply.
	Off	The switch is not connected properly to the power supply or the unit is malfunctioning.
Link/Act	Solid	The corresponding port is connected.
	Blinking	The corresponding port is connected and transmitting data packets.
	Off	No link has been established on the corresponding port or it is not working properly
PoE	Solid	A powered device is connected and powered properly.
	Blinking	A powered device is connected and the power consumption level is too high.
	Off Solid	No powered device is connected or PoE power is not provided. Port negotiation rate is 100Mbps.
100M	Off	Port negotiation rate is 10Mbps on the premise that the Link/Act indicator of corresponding port is solid or blinking

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Ports/Switch/Interfaces

Port	Type	Description
PoE 1-8	10/100M	Used to transmit data and provide power to the connected devices that are compatible with IEEE 802.3af or IEEE 802.3at standard.
Uplink 9	Uplink port/non PoE port	Used to connect to an uplink device, such as a router or a core switch.
Default Extend	Network mode switch	Default: The transmission rate of PoE port 1-8 is up to 100Mbps. Extend: The transmission rate of PoE port 1-8 is up to 10Mbps, but the transmission distance is up to 820ft. (To ensure the timely transmission of video data, it is recommended to set the data rate to 8Mbps or lower.)
51V	Power interface	Used to power the device using the included power adapter.
⏚	Grounding terminal	Used to connect the protective ground against lightning strikes.

Tips:
In Extend state, use a CAT5E Ethernet cable or better, and make sure that the rate of the other device is set to Auto negotiation.
In Default state, if you use a CAT5E Ethernet cable or better, the PoE data transmission distance is up to 140m.

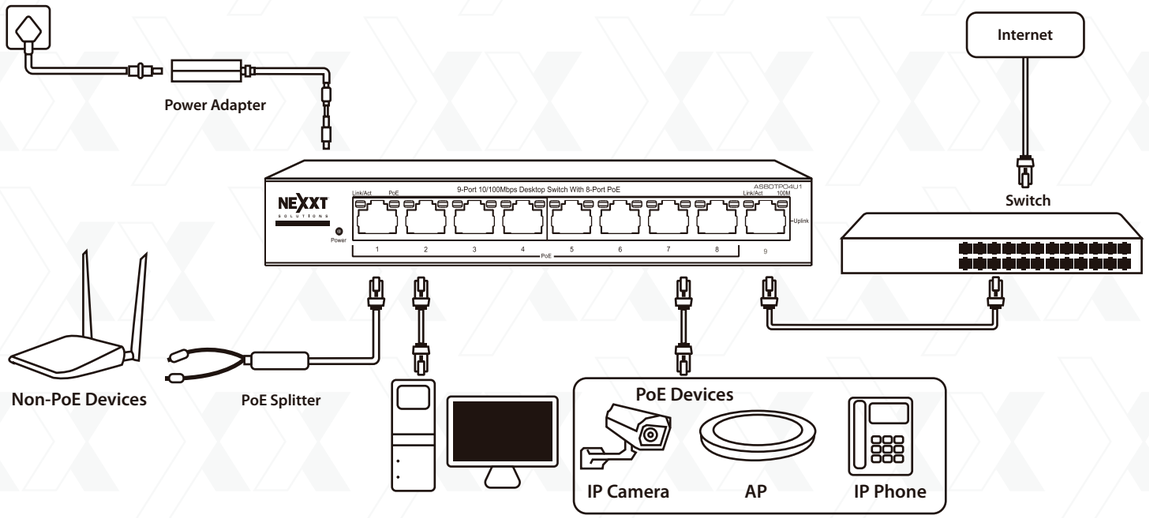
2. Installation

2.1 Preliminary steps

Observe the safety instructions detailed below before connecting the device into your network.

- Select a location with adequate ventilation all around the unit.
- Place the switch on a secure, stable and clean surface.
- Allow at least 10cm clearance between the rear panel and the wall to dissipate hot air.
- Never place heavy objects on top of the switch.
- If you need to stack other devices on top of the switch, a minimum separation of 1.5 cm should be used.
- Electrical power supplied should match the voltage specified.
- The switch can be mounted on the wall or placed free-standing on a desktop.

2.2 Connection of the switch



1. Plug the switch into a nearby power outlet with the supplied power cord.
2. Then use Ethernet cables to connect the switch to a PoE compliant device.

   Nota: The switch supports non-PoE devices on ports 1 to 8 (except port 9).

   If non-standard PDs (such as a 24V) are connected to ports 1 to 8, they will damage the port of the connected devices.
3. Switch ports will automatically adjust to the characteristics (MDI-II/MDI-X, speed, duplex) of the device that is connected.
4. The Link/Act LEDs for each port will flash when the link is available.

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3. Technical specifications

MPN	ASBDTP04U1
Hardware features	
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE802.3ab, IEEE 802.3af, IEEE 802.3at
Ports and interface	9 x 10/100Mbps Auto-MDI/MDI-X
Forwarding speed	10Mbps: 14880pps 100Mbps: 148800pps
LED indicators	Link/Act, PoE Status, Power, 100Mbps
Format	Desktop
Performance features	
Topological structure	Star
Backplane bandwidth	1.8Gbps
MAC address table	4000
MAC address learning	Automatic update
Advanced functions	Default Mode: Transmission rate of PoE ports 1-8 is up to 100Mbps.Extend Mode: Transmission rate of PoE ports 1-8 is limited to 10Mbps, but transmission distance is up increased up to 820ft.* In Extend state, to ensure the timely transmission of video data, it is recommended to set the data rate to 8Mbps or lower.
Transfer method	Store-and-Forward
PoE supply	
Ports and interface	Ports 1-8 support standard IEEE802.3af/at (max of 30W in each port)
PoE power supply	58W (max combined output)
Power consumption	<63W (full configuration)
Software features	
Access control	CSMA/CD
Flow control	IEEE802.3x full duplex and half duplex back pressure
Environment	
Operating temperature	32°F-104°F
Storage temperature	-40°F -158°F
Relative humidity	Operating humidity: 10%-90% non-condensing Storage humidity: 5%-90% non-condensing
Physical appearance	
Housing	Metal
Color	Black
Product dimensions	7x4.1x1in
Product weight	4lb
Additional information	
Power	AC: 110/220V DC: 51V/1.25A (power adapter)
Warranty	3 years
Certificates	FCC
Protection	Inductive lightning protection: 6KV
Included	9 port PoE switch · Quick Install Guide · Power adapter · Power cable
Box dimensions	12.8x9.6x2.3in
Box weight	2.6lb

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FCC statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.