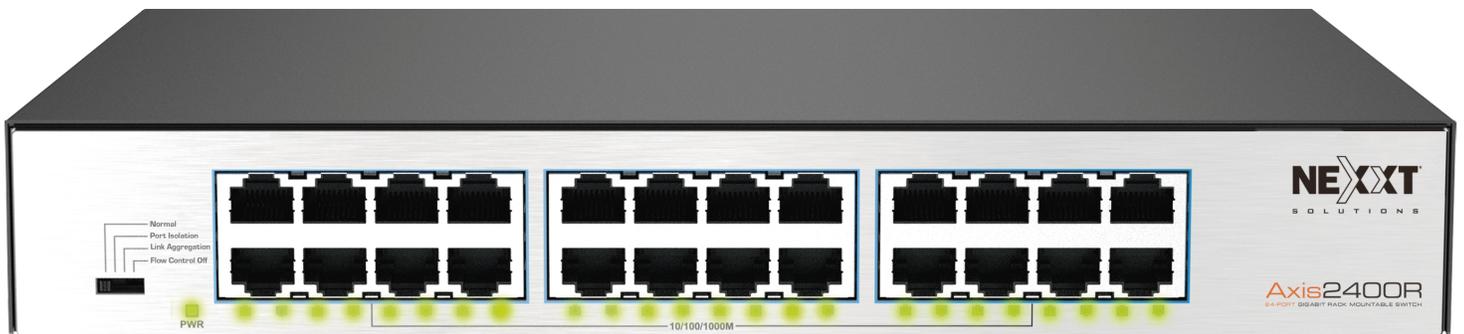


NEXXT[®]

S O L U T I O N S

INFRASTRUCTURE

Professional Series



Axis2400R

24-PORT GIGABIT RACK MOUNTABLE SWITCH

Model: **NSW-A2400UR**

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Safety measures.

Warning:

- In a residential environment, running this device may cause radio interference.
- The product has an optical fiber port with metal shielding or tensile components and the length of the connecting cable is expected to be less than 3m.
- Please do not place the switch near water or damp places and prevent water or moisture from entering the switch housing.
- Ensure that the working environment of the switch is clean. Excessive dust may cause electrostatic adsorption, which not only affects the service life of the device, but also easily causes communication faults.
- To avoid the danger of electric shock, please do not open the case when the switch is working. Do not open the case of the commutator on your own, even if it is not charged.
- Insert the power module into the chassis in the correct direction according to the installation instructions. Otherwise, the device cannot be powered on.
- Pluggable power modules of different specifications cannot be mixed into the same device.
- Before cleaning the switch, remove the power plug from the switch. Do not use liquid to clean the switch and do not wipe it with a wet piece of cloth.

1. Introduction

High performance network connectivity for reliable data transfer

The **Axis2400R** is an unmanaged rack-mountable fast ethernet switch, specially designed for small to medium businesses that require high performance network connectivity and smooth data transfer.

It features 24 UTP/STP RJ-45 ports with auto MDI/MDIX, which can operate at 10/100/1000 Mbps. The automatic polarity switching function reduces congestion and redundant network communication and the store-and-forward function ensures that packets are sent to each port effectively. By integrating the Axis switch into your network, both speed and efficiency will be significantly enhanced. The standard 19-inch rack-mountable compact case along with its stability and improved data transfer rates make it the ideal solution to upgrade small and medium sized networks.

1.1 Highlights

- 24 auto-sensing 10/100/1000 Mbps ports switch.
- Supports auto MDI/MDIX.
- Automatic polarity switching Fast Ethernet RJ-45 ports.
- Supports store-and-forward switching technology.
- Supports MAC address auto-learning and auto-aging functions.
- 48Gbps backplane bandwidth.
- 1U steel chassis with sleek and compact design and durable construction ideal for standard 19-inch rack or desktop installation.
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE802.3x standards.
- Fan-free, energy-saving, passive cooling system ensures better heat dissipation and quiet operation.
- It comes with a 1 U steel chassis for standard installation in a 19-inch rack.

1.2 Package content

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

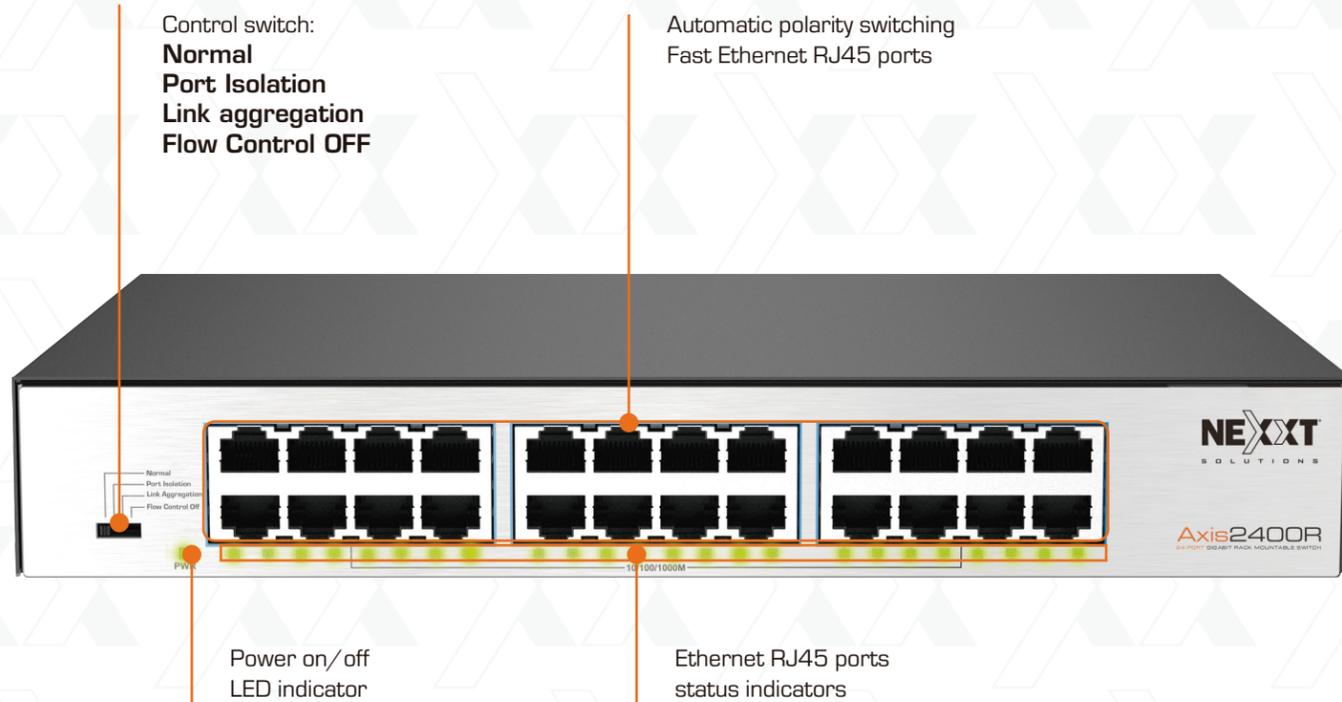
- 24-port switch
- AC power cord
- Grounding cable with ring terminal
- Rack kit (M3 screws (x 8), mounting ear (x 2))
- Rubber pads (for on-shelf/desk installation) (x 4)
- User manual

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

1.3 Front and rear panel overview

Front view

The front panel features twenty-four 10/100/1000 Mbps UTP ports, with the corresponding number of lights to display the activity on each one, plus one indicator light for power.



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

2. Installation

2.1 Preliminary steps

Read and make sure to comply with the safety instructions detailed below before connecting the device into your network.

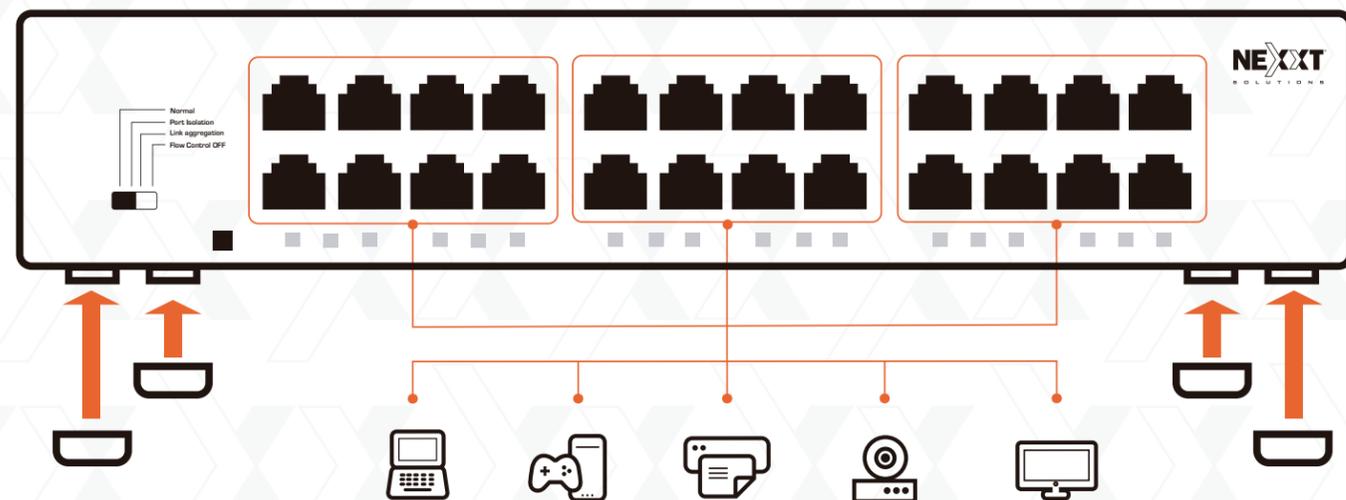
- Select a location with adequate ventilation all around the unit.
- Place the switch on a secure, stable, and clean surface.
- Allow at least 10 cm clearance between the rear panel and the wall to dissipate hot air.
- Never place heavy objects on top of the switch.
- If you need to stack other devices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

2.2 Installation procedures

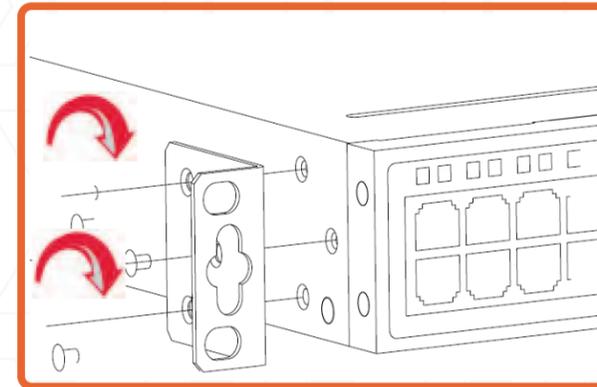
The switch can be mounted in a rack or placed free-standing on a desktop or workbench.

2.2.1 Installation on a flat surface

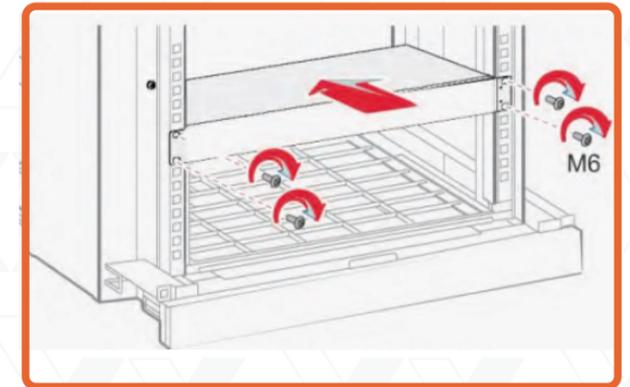
Attach the four self-adhesive rubber pads (supplied) to each corner on the bottom of the chassis and then place it securely on the workbench.



2.2.2 Installation in a standard 19-inch rack



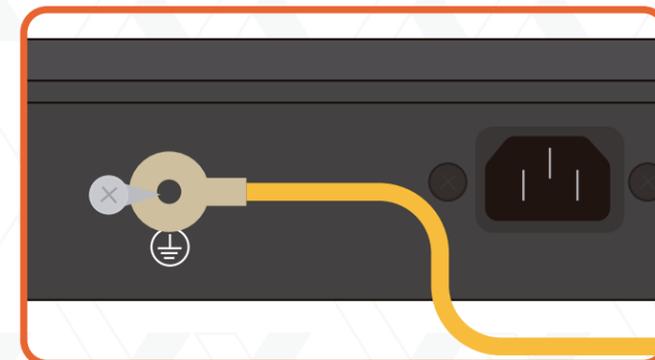
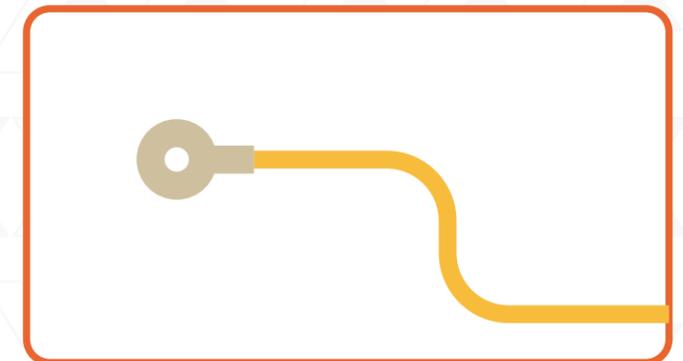
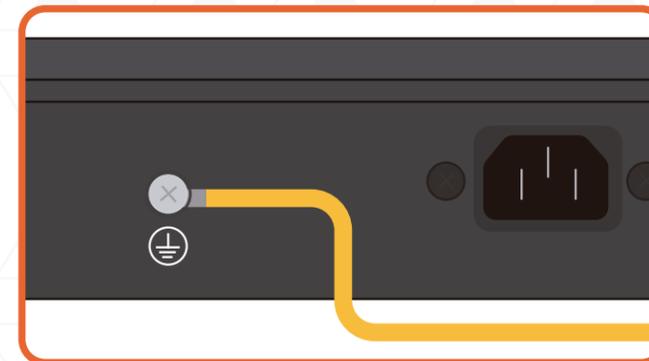
a) Attach the mounting ears to the lateral panels of the switch



b) To install the switch on the rack or cabinet, screw the mounting ears to the front vertical mounting flanges using M6 screws.

2.3 Connecting the grounding cable

Remove the screw from the grounding lug. Then, insert it through the ring terminal of the grounding cable. Finally, fasten both to the grounding lug again to attach the grounding cable.

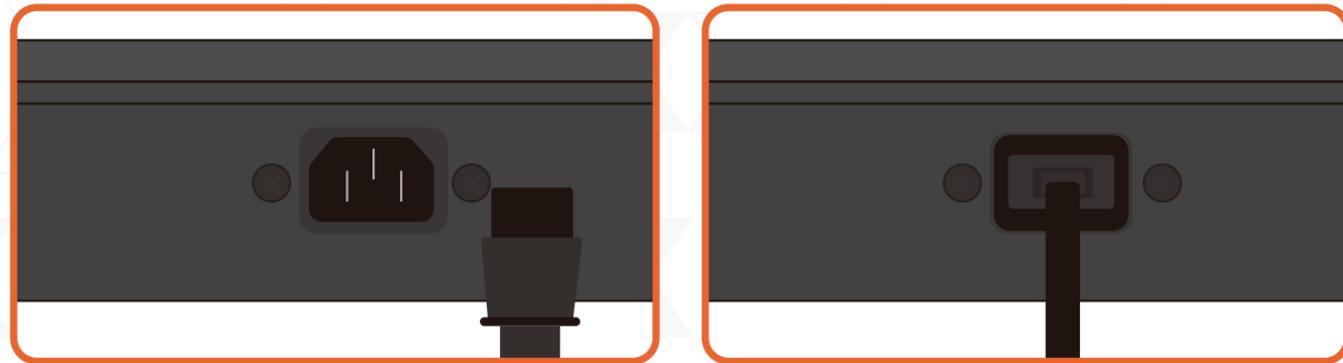


2.4 Connecting the AC power cord to the switch power module and powering the switch

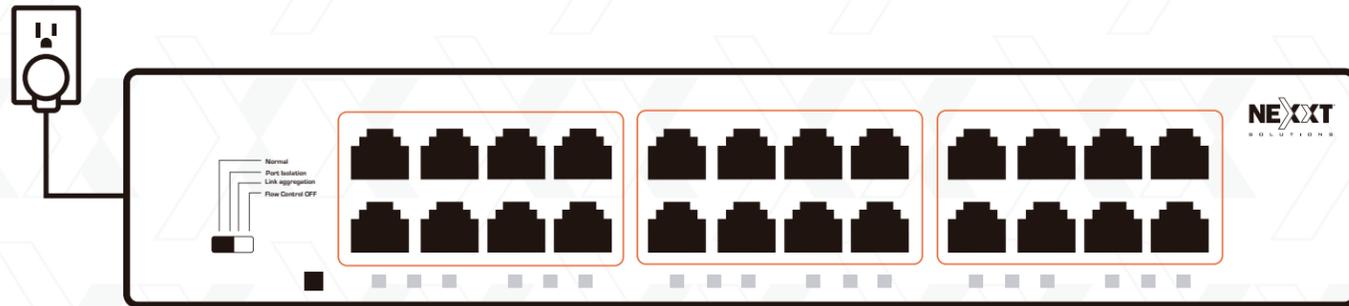
Warning!

- Never install a power cord while it is electrified.
- Do not power the switch before installation and cabling are completed.
- Make sure that the switch is grounded reliably.

a) Plug the supplied AC power cord into the built-in power module on the rear panel of the switch.

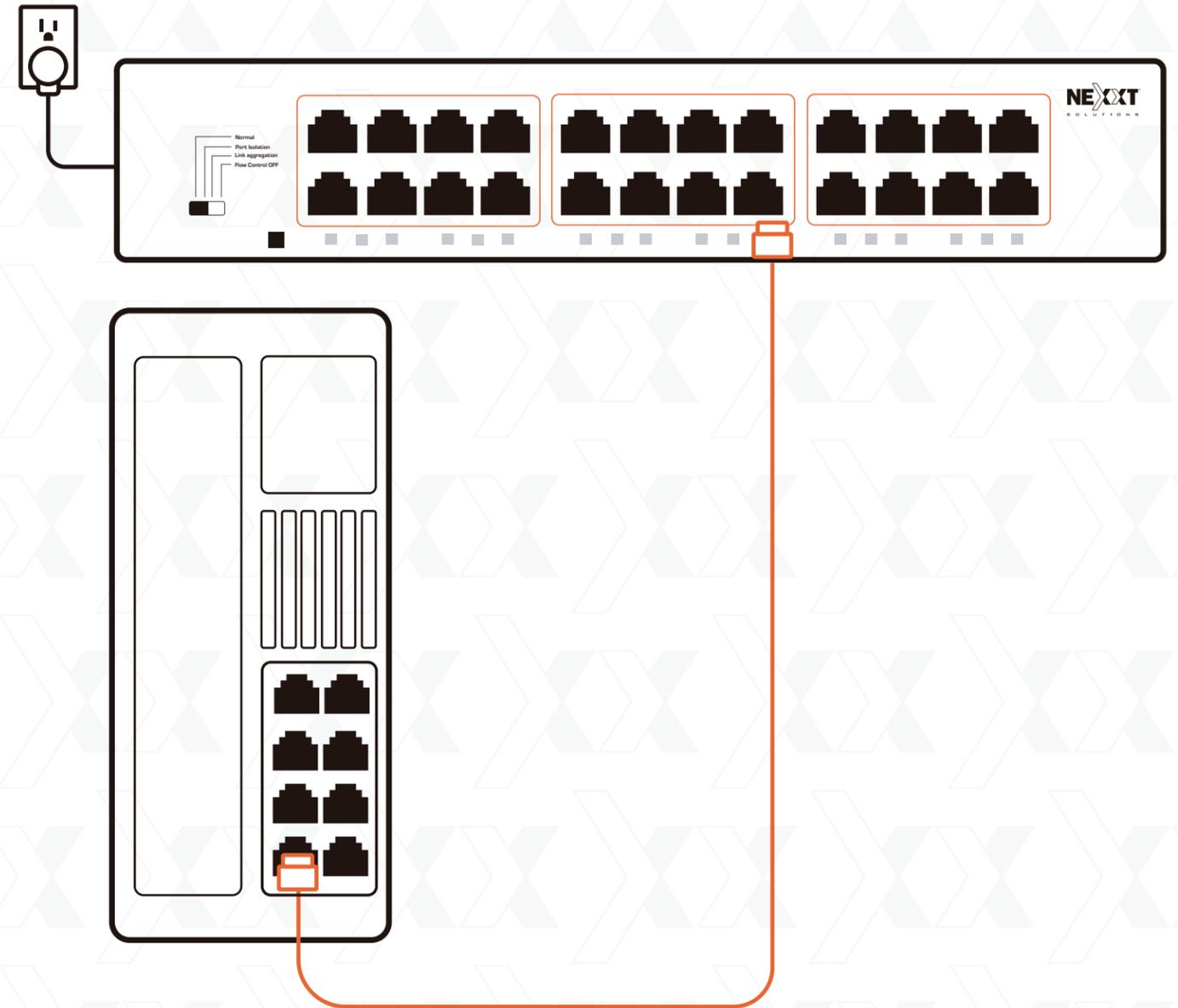


b) Plug the switch into a nearby power outlet.

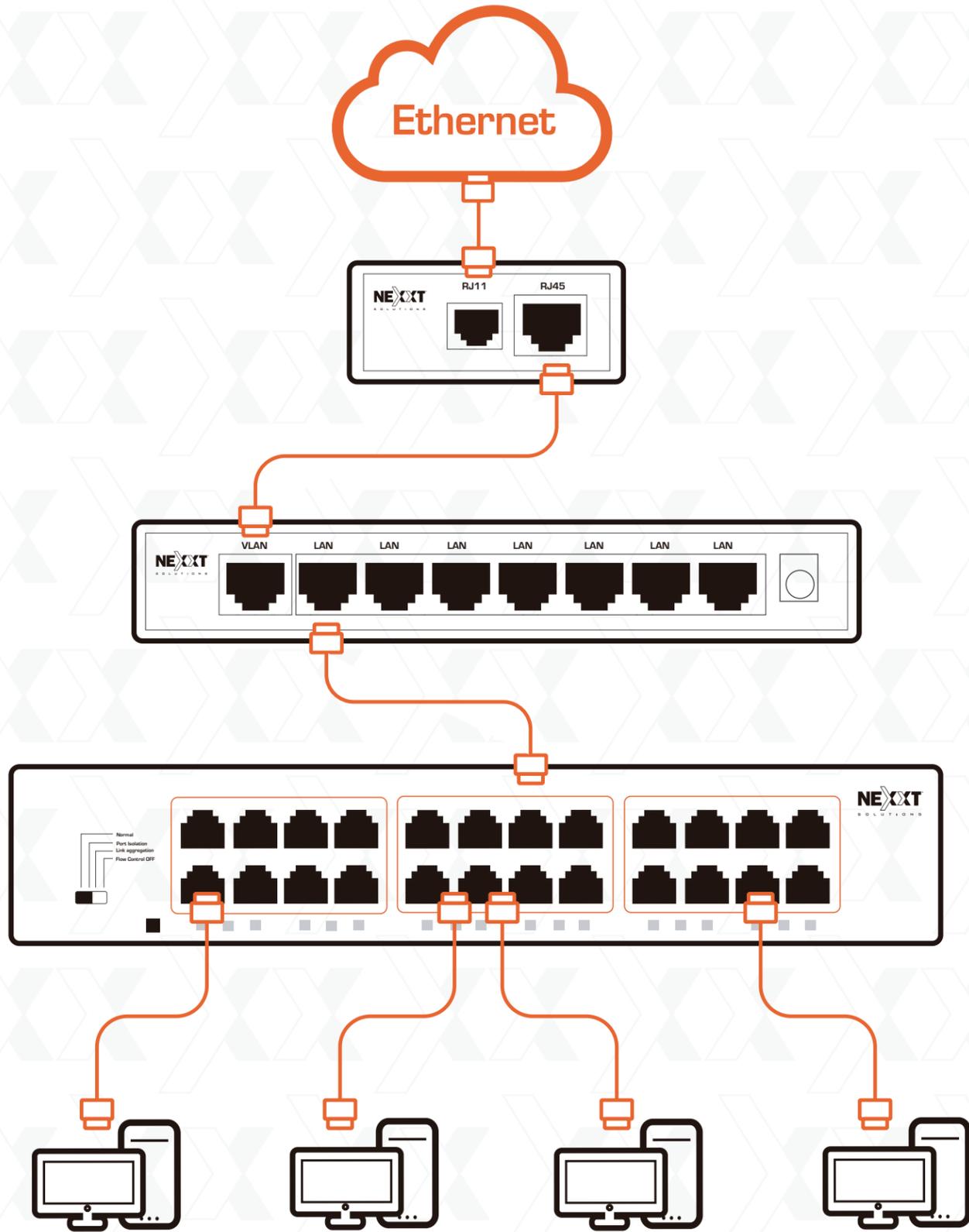


3. Connect the switch to the network

Use ethernet cables to connect the switch to network devices, such as a PC with a NIC port (Network Interface Card, also known as Ethernet card or network adapter)



Switch ports will automatically adjust to the characteristics [MDI, MDIX, speed, duplex, et. al.] of the device that is connected.



With the 24 UTP /STP ports available in this switch, you can connect multiple PCs, printers, and other network devices enabled with RJ45 ports simultaneously.

Specifications

MPN	NSW-A2400UR
Hardware features	
Chipset	EN8853D+2*EN8808Q, Airoha
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x
Port interface	(24GE) 10/100/1000 Mbps
Network media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100BASE-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m)
Data rate	48Gbps
Forwarding rate	35.712Mpps
Link aggregation	Yes
Flow Control Off	Yes
Auto MDI/MDIX support	Yes
Light indicators	Green LED status indicators: <ul style="list-style-type: none"> • Power on/off indicator: Solid green when the switch is powered • Ethernet RJ45 ports status indicators: Blinking green when the corresponding port is connected, and data transmission is active
AC input range	100-240V, 50/60HZ
Power consumption	Max. 13W
Rack mountable	Yes
Product dimensions	11.02 x 4.92 x 1.73 in
Product weight	2.29 lb.
Lightning proof power supply protection	4kV
Performance features	
Topological structure	Star
Backplane bandwidth	48Gbps
Packet filtering /	14880pps (10Mbps) per port
Forwarding rate	148800pps (100Mbps) per port
MAC address table	8K
MAC address learning	Auto-learning, auto-aging
Number of IP interfaces	24
Pack buffer	4Mbits
Jumbo frame	15K
Switching method	Store-and-forward

Other	
Operating temperature	32°F-113°F
Storage temperature	-40°F -158°F
Operating humidity	10%~90% RH / condensing
Storage humidity	5%~90% RH / condensing
Installation	Desktop/Rack mounted
Certification	CE, FCC, RoHS
Box dimensions	14.17 X 8.66 X 3.54 in
Box weight	3.74 lb.
Warranty and support	5 year warranty
Package contents	24-port switch, AC power cable, grounding cable, rack kit, rubber pads, user manual

FCC statement

This equipment has been tested and found to comply with the limits for a Class A 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.



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