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CONNECTIVITY

3 YEAR WARRANTY

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Axis2400R

24-PORT | RACK-MOUNTABLE GIGABIT SWITCH

Model: **ASBRM244U1**

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1. Introduction

The Axis is a Gigabit unmanaged Ethernet Switch, specially designed for small to medium businesses that require high performance network connectivity along with advanced internet capabilities. It features UTP/STP RJ-45 ports with auto MDI/MDIX, which can operate at 10/100/1000Mbps. Gigabit ports can also be used as normal or uplink ports to connect a backbone network. Its standard 19-inch rack-mountable case along with its improved transmission rates make it the ideal choice for small and medium sized networks.

1.1 Switch features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE802.3x standards
- Supports IEEE802.3x flow control for full-duplex mode, and backpressure flow control for half-duplex mode
- Supports auto MDI/MDIX
- Supports store-and-forward switching technology
- Jumbo frame of 9Kbytes with 48Gbps backplane bandwidth
- Advanced loop prevention algorithm
- It comes with a 1U steel chassis for standard installation in a 19-inch rack
- Integrated lightning protection
- Fan-free, energy-saving design

1.2 Package content

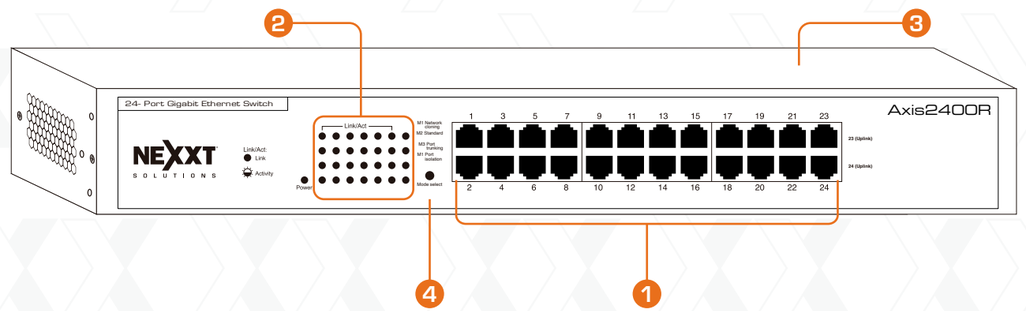
Upon opening the box, ensure that the following items are included:

- 24-port switch
- Power cable
- Rack-mount bracket kit
- Self-adhesive pads (for on-shelf installation)
- 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

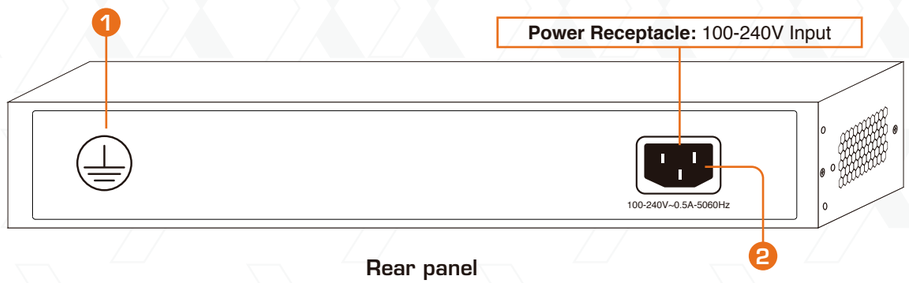
The front panel features twenty-four 10/100/1000 Mbps UTP ports, with the corresponding number of lights to display the activity on each one, plus one indicator light for power.



Front panel

1. RJ-45-ports
2. LED status indicators
3. Metal housing
4. Mode selection button

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



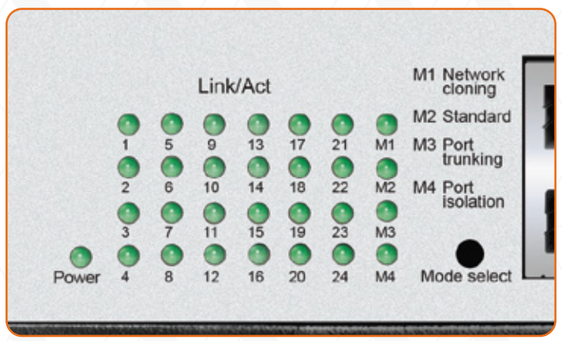
Rear panel

1. Protective ground screw
2. AC input

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 description

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 panel

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The following chart shows the LED indicators of the switch along with an explanation of each indicator.

LED indicator	Status	Description
Power	Solid	The switch is powered on
	Off	The switch is either turned off, the connection is loose or there might be a problem with the power cord or outlet
Link/Act	Solid	The corresponding port is correctly connected
	Blinking	The port is actively receiving or transmitting data packets
	Off	The port is either disconnected or the switch is improperly connected to the remote device
M1	Solid	Network cloning mode
M2	Solid	Standard mode
M3	Solid	Port trunking mode
M4	Solid	Port isolation mode

2. Installation

2.1 Preliminary steps

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

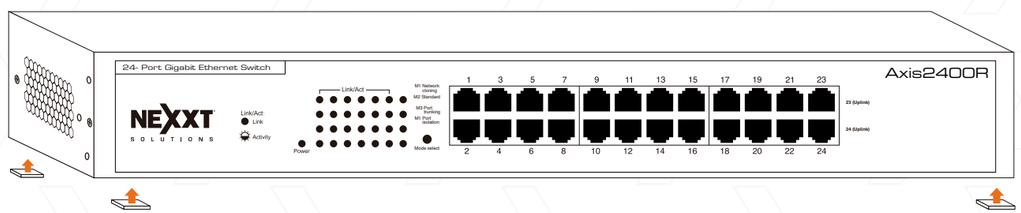
- Select a location with adequate ventilation all around the unit.
- Place the switch on a secure, stable and clean surface.
- Allow at least 10cm clearance between the rear panel and the wall to dissipate hot air.
- Never place heavy objects on top of the switch.
- If you need to stack other devices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

2.2 Installation procedures

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

2.2.1 Installation on a flat surface

Attach the four self-adhesive rubber pads (supplied) in each corner on the bottom of the chassis



Attach the rubber pads to the bottom of the unit

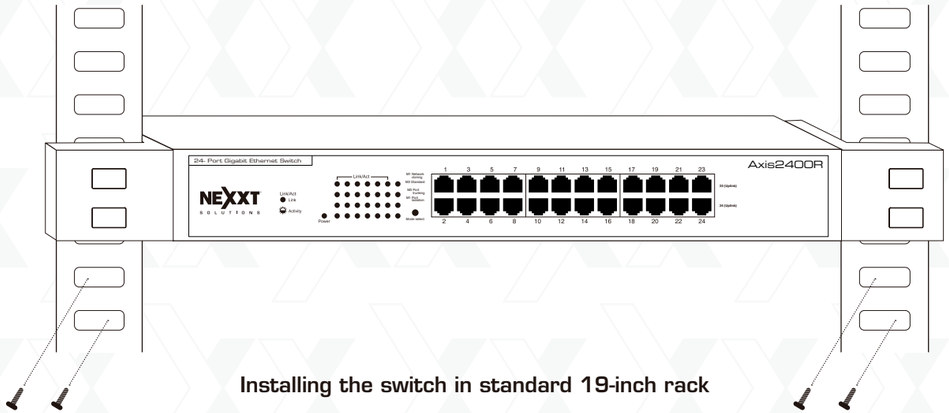
2.2.2 Installation in a standard 19-inch rack

To install the mounting brackets on the switch, follow the steps described below.

- First, make sure the rack is properly secured, stable and strong enough to support the weight of the switch.
- Attach the two mounting brackets on both sides of the switch using the supplied screws.

Rack-mount “L” bracket installation

- Place the unit into the rack, making sure the mounting holes on the device line up with the mounting holes on the rack.
- Fasten the chassis in the rack with the screws.



Installing the switch in standard 19-inch rack

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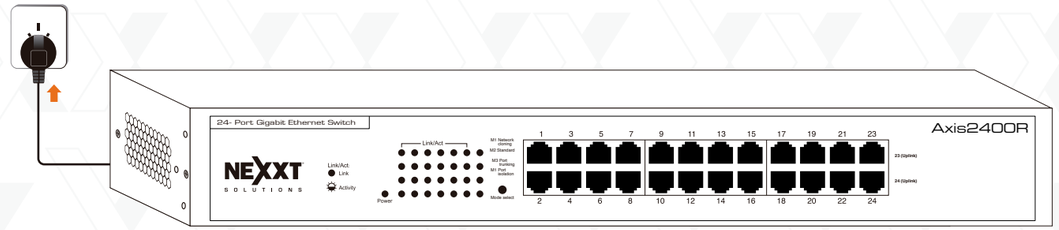
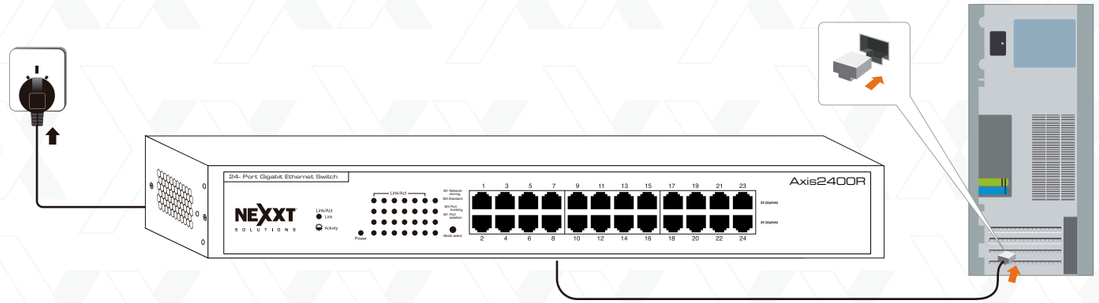
2.3 Connection of the switch

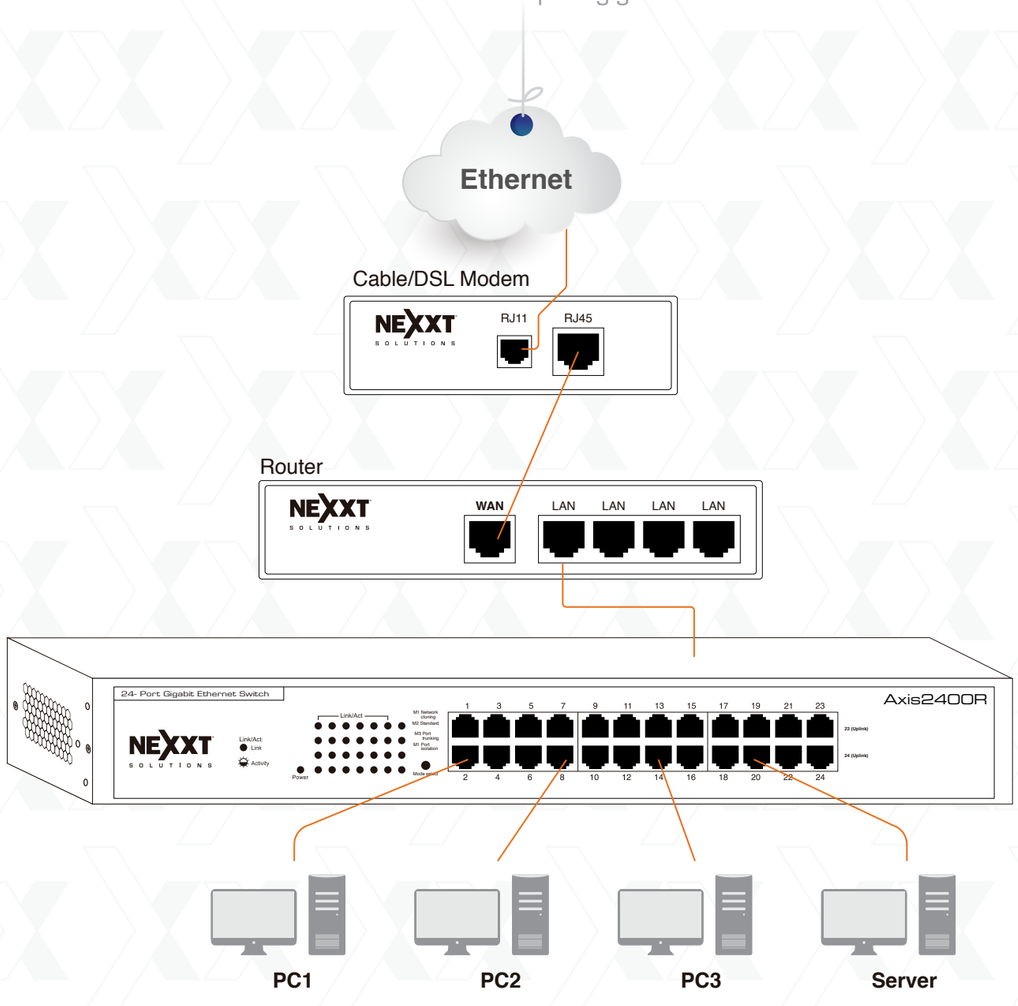
1. Plug the switch into a nearby power outlet with the supplied power cord.



2. Then use ethernet cables to connect the switch to network devices, such as a PC with a NIC port.



3. Switch ports will automatically adjust to the characteristics (MDI-II/MDI-X, speed, duplex) of the device that is connected.
   The orange Link/Act LEDs for each port will flash when the link is available.



Commonly-used method to access the ethernet

With 24 UTP/STP ports available, multiple PCs, printers and other network devices with RJ45 ports can be connected simultaneously to this switch.

3. Operating modes

This switch comes equipped with four preconfigured operating modes, selectable through the **Mode select** button found on the front panel.

In order to cycle through modes, press and hold the **Mode select** button for 4 seconds. LED lights from M1/M2/M3/M4 will all blink once at the same time confirming you are now in the selection mode. Press the button once until obtaining the desired mode. The

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switch will automatically go out of selection mode after 5 seconds and lock in the selected mode.

- **M1 Networking clone** – Closed flow control on all ports to resolve speed drops in 10/100/1000Mbps mixed networks.
- **M2 Standard** – Open flow control on all ports. Full gigabit switch capabilities in order to be used as a central switch. This is the default setting.
- **M3 Port trunking** – Ports 23 and 24 act as a link aggregation group (static convergence: source MAC + destination MAC). Increases uplink bandwidth and reduces uplink bottlenecks to prevent data congestion.
- **M4 Port isolation** – Ports 1-22 become isolated from each other. Ports 23 and 24 are the convergence of the upper joint. This mode can isolate broadcast storms, prevent ARP and DHCP spoofing, enhance network transmission rate and security. This mode is mainly used for internet cafes, schools, businesses and public networks.

4. Technical specifications

MPN	NW223NXT72
Hardware features	
Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x
Ports and interface	24 x 10/100/1000Mbps Auto-MDI/MDI-X
Forwarding speed	10Mbps: 14880pps 100Mbps: 148800pps 1000Mbps: 1488000pps
LED indicators	Power and status lights
Format	Rackmountable
Performance features	
Topological structure	Star
Backplane bandwidth	48Gbps
Jumbo frame	9Kbytes
MAC address table	8000
MAC address learning	Automatic update
Advanced functions	Loop prevention between nodes on the switch, among other connected switches, and loops among downlink devices of the switch
Transfer method	Store-and-Forward
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	Gun metal
Dimensions	17.3x7x1.7in
Weight	4.2lb
Additional information	
Power input	100-240VAC
Protection	Inductive lightning protection: 6kV
Certificates	FCC
Warranty	Three years

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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.

Notes

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Notes