

Cisco IE-3200-8T2S-E

Cisco IE-3200-8T2S-E Catalyst IE3200 Rugged Gigabit Ethernet Switch User Manual

Model: IE-3200-8T2S-E

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Cisco IE-3200-8T2S-E Catalyst IE3200 Rugged Gigabit Ethernet Switch. Designed for robust, high-speed connectivity in industrial environments, this switch offers advanced features for reliable network performance.

Key features include: 8x 10/100/1000Mbps Copper Ports, 2x SFP Uplink Slots supporting fiber links up to 100km, a rugged, fanless design with IP30-rated metal housing, and support for advanced industrial protocols like Ethernet OAM, LLDP, QoS, VLANs, and redundant ring topology. It also offers flexible mounting options and seamless integration with Cisco DNA Center.



Figure 1: Front-left view of the Cisco IE-3200-8T2S-E Catalyst IE3200 Rugged Gigabit Ethernet Switch.

2. SAFETY INFORMATION

Always observe the following safety precautions when installing, operating, or maintaining the device:

- Ensure the power source matches the device's voltage requirements.
- Do not expose the device to water or excessive humidity.
- Avoid placing the device in direct sunlight or near heat sources.
- Ensure proper ventilation to prevent overheating.
- Only qualified personnel should perform installation and maintenance.
- Disconnect power before cleaning or servicing the device.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cisco IE-3200-8T2S-E Catalyst IE3200 Rugged Gigabit Ethernet Switch
- Documentation (Quick Start Guide, Safety Information)
- Mounting Hardware (e.g., DIN-rail clip, wall-mount brackets)
- Power Connector (if applicable)

Note: Contents may vary slightly based on the specific product bundle.

4. PHYSICAL DESCRIPTION AND PORTS

The Cisco IE-3200-8T2S-E switch features a robust metal casing designed for industrial environments. The front panel provides access to all network ports and status indicators.



Figure 2: Front view of the Cisco IE-3200-8T2S-E showing port layout.

Port Layout:

- **8x 10/100/1000Mbps Copper Ports:** Standard RJ45 Ethernet ports for connecting industrial devices and edge servers.

- **2x SFP Uplink Slots:** For fiber optic connections, supporting distances up to 100km with appropriate SFP modules (not included).
- **Power Input:** Terminal block for DC power connection.
- **Grounding Screw:** For proper grounding of the device.
- **Status LEDs:** Indicators for power, system status, and port activity.

5. SETUP

5.1 Mounting the Switch

The IE-3200-8T2S-E supports both DIN-rail and wall-mount installations.

1. **DIN-Rail Mounting:** Attach the DIN-rail clip to the rear of the switch. Align the clip with the DIN rail and press firmly until it clicks into place.
2. **Wall Mounting:** Use appropriate screws (not included) to secure the wall-mount brackets to a sturdy surface. Attach the switch to the brackets. Ensure the mounting location allows for adequate ventilation and cable management.

5.2 Power Connection

Connect the power source to the terminal block on the switch. Ensure correct polarity. The switch operates on a DC power input (refer to specifications for voltage range). It is recommended to connect the grounding screw to a proper earth ground.

5.3 Network Connection

1. **Copper Ports:** Connect standard Ethernet cables (Cat5e or higher) from your devices (e.g., PCs, PLCs, IP cameras) to the 10/100/1000Mbps RJ45 ports.
2. **SFP Uplink Slots:** Insert compatible SFP modules into the SFP slots. Connect fiber optic cables from your network backbone or other switches to these modules. Ensure the SFP modules and fiber cables match the required specifications (e.g., single-mode, multi-mode, wavelength).

6. OPERATING INSTRUCTIONS

6.1 Initial Configuration

The Cisco IE-3200-8T2S-E switch can be managed and configured through various methods, including command-line interface (CLI) via console port, web-based graphical user interface (GUI), or centrally via Cisco DNA Center.

- For initial setup, connect a console cable to the console port and use a terminal emulator to access the CLI.
- Refer to the Cisco documentation for detailed instructions on IP address assignment, VLAN configuration, QoS settings, and other advanced features.
- Leverage Cisco DNA Center for centralized monitoring, diagnostics, and firmware updates, enabling efficient management of your industrial network infrastructure.

6.2 Basic Operation

Once powered on and configured, the switch will begin forwarding network traffic. The status LEDs provide visual feedback on the device's operational state and port activity.

- **Power LED:** Indicates if the device is receiving power.
- **System LED:** Shows the overall health and operational status of the switch.
- **Port LEDs:** Indicate link status and activity for each connected port.

7. MAINTENANCE

7.1 Cleaning

Due to its fanless design and IP30 rating, the switch requires minimal cleaning. Periodically, use a soft, dry cloth to wipe down the exterior. Do not use liquid cleaners or aerosols. Ensure the device is powered off before cleaning.

7.2 Firmware Updates

Regularly check for and apply firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed via Cisco DNA Center or through direct access to the switch's management interface. Always follow Cisco's recommended update procedures.

8. TROUBLESHOOTING

8.1 Common Issues

- **No Power:** Check power cable connection, power source, and ensure the power LED is illuminated.
- **No Link on Port:** Verify cable connection, ensure the connected device is powered on, and check the port LED. Try a different cable or port.
- **Network Connectivity Issues:** Check IP configuration, VLAN settings, and ensure no IP conflicts. Consult network logs for errors.

8.2 Indicator Lights

LED Indicator	Status	Description
PWR	Solid Green	Device is powered on and operating normally.
SYS	Solid Green	System is healthy and functioning correctly.
SYS	Blinking Amber	System error or warning. Consult logs.
Link/Act (per port)	Solid Green	Port has a valid link.
Link/Act (per port)	Blinking Green	Port is actively transmitting or receiving data.
Link/Act (per port)	Off	No link detected or port is disabled.

9. SPECIFICATIONS

Feature	Specification
Model Number	IE-3200-8T2S-E
Brand	Cisco
Ports	8x 10/100/1000Mbps Copper, 2x SFP Uplink Slots
Data Transfer Rate	1 Gigabits Per Second
Switch Type	Managed, Fixed, Store-and-Forward, Non-PoE, Layer 2

Feature	Specification
Case Material	Metal
Operating Temperature	-40°C to 75°C (as per feature bullets)
IP Rating	IP30 (as per feature bullets)
Dimensions (L x W x H)	9.06 x 9.45 x 7.87 inches
Item Weight	5 pounds
UPC	657768787454

10. WARRANTY AND SUPPORT

This product is a renewed item. For specific warranty details, please refer to the documentation provided with your purchase or contact the seller directly. Cisco provides extensive online resources, including documentation, software downloads, and support forums for their products.

For technical support or further assistance, please visit the official Cisco support website or contact your authorized Cisco reseller.

Note: As this is a renewed product, warranty terms may differ from new products.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

