Axis Communications 02621-001

AXIS D8208-R Industrial 8-Port Managed PoE++ Switch User Manual

Model: 02621-001

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Axis Communications D8208-R Industrial 8-Port Managed PoE++ Switch. This device is designed for robust industrial environments, offering reliable network connectivity and Power over Ethernet (PoE++) capabilities for connected devices. Please read this manual thoroughly before using the product to ensure proper and safe operation.

2. Safety Information

Observe the following safety precautions to prevent damage to the product and ensure user safety:

- **Power Source:** Use only the specified power supply for this device. Ensure the power source meets the voltage and current requirements.
- **Environment:** Install the switch in an environment that complies with its operating temperature and humidity specifications. Avoid exposure to direct sunlight, excessive heat, moisture, or corrosive substances.
- **Ventilation:** Ensure adequate ventilation around the device to prevent overheating. Do not block ventilation openings.
- **Installation:** Installation should be performed by qualified personnel in accordance with local electrical codes and regulations.
- **Maintenance:** Do not attempt to open or service the device yourself. Refer all servicing to qualified service personnel.
- **Cables:** Use appropriate and certified cables for all connections.

3. Package Contents

Verify that all items are present in the package. If any item is missing or damaged, contact your supplier.

- AXIS D8208-R Industrial 8-Port Managed PoE++ Switch
- Quick Installation Guide
- Mounting Kit (e.g., DIN rail clip, screws)
- Terminal Block Connectors (for power input)

4. Product Overview

The AXIS D8208-R is a robust industrial switch designed for demanding applications. It features multiple Ethernet ports with Power over Ethernet capabilities and advanced management features.

4.1 Front Panel Layout

Figure 1: Front view of the AXIS D8208-R Industrial Switch. This image displays the front panel of the switch, highlighting the various Ethernet ports, power input terminals, LED indicators, and the console port. Ports 1-4 are 1G PoE++ ports, ports 5-8 include 1G and 2.5G PoE++ capabilities, and ports 9-10 are 10G SFP+ ports.

Figure 2: Detailed front view of the AXIS D8208-R Industrial Switch. This image provides a closer look at the port configuration and LED indicators. It shows the two 10G SFP+ uplink ports (9 and 10) at the bottom, the console port, and the reset button. The power input terminals are visible on the right side.

4.2 Components Description

- **Ethernet Ports (1-4):** 1 Gigabit Ethernet ports with PoE++ (802.3bt) support.
- **Ethernet Ports (5-8):** 1 Gigabit and 2.5 Gigabit Ethernet ports with PoE++ (802.3bt) support.
- **10G Ports (9-10):** 10 Gigabit SFP+ uplink ports for high-speed connections.
- **Power Input (P1, P2):** Redundant power input terminals for enhanced reliability.
- **Console Port:** RJ45 port for local management and configuration via a serial connection.
- **Reset Button:** Used to reset the device to factory defaults or reboot.
- **LED Indicators:**
  - **SYS:** System status indicator.
  - **P1, P2:** Power input status indicators.
  - **ALM:** Alarm indicator.
  - **RM, RC:** Redundancy Management / Redundancy Control indicators.

5. Setup

5.1 Mounting

The AXIS D8208-R is designed for DIN rail mounting.

1. Attach the DIN rail clip (if not pre-installed) to the rear of the switch using the provided screws.
2. Hook the top edge of the DIN rail clip onto the DIN rail.
3. Push the bottom of the switch firmly towards the DIN rail until it clicks into place.
4. Ensure the switch is securely fastened to the DIN rail.

5.2 Power Connection

The switch supports redundant power inputs (P1 and P2) for increased reliability.

1. Ensure the power source is turned off before making any connections.
2. Connect the positive (+) and negative (-) wires from your DC power supply to the corresponding terminals on the provided terminal block connector for P1.
3. Insert the terminal block connector into the P1 power input port on the switch.

4. (Optional) For redundant power, repeat steps 2 and 3 for the P2 power input.
5. Once all connections are secure, turn on the power supply. The P1 and/or P2 LEDs should illuminate.

5.3 Network Connection

Connect network devices and uplink connections.

- **Standard Devices:** Connect your network devices (e.g., IP cameras, access points) to ports 1-8 using standard Ethernet cables. These ports will provide PoE++ power if the connected device supports it.
- **Uplink:** For high-speed uplink to your core network, insert compatible SFP+ transceivers into ports 9 and 10, then connect fiber optic cables.

5.4 Initial Configuration

The switch can be configured via a web-based interface or a command-line interface (CLI) through the console port.

- **Web Interface:** Connect a computer to any Ethernet port on the switch. The switch will typically obtain an IP address via DHCP or use a default static IP. Refer to the Quick Installation Guide for the default IP address and login credentials.
- **Console Port:** Connect a serial cable from your computer to the console port on the switch. Use a terminal emulation program (e.g., PuTTY) with the specified serial settings (e.g., 115200 baud, 8 data bits, no parity, 1 stop bit, no flow control) to access the CLI.

6. Operating

6.1 LED Indicators

Monitor the LED indicators for the operational status of the switch.

LED	Status	Description
SYS	Green (Solid)	System is operating normally.
SYS	Green (Flashing)	System is booting or performing an operation.
P1 / P2	Green (Solid)	Corresponding power input is active.
ALM	Red (Solid/Flashing)	An alarm condition exists (e.g., power failure, port error). Check system logs.
Port LEDs	Green (Solid)	Link established.
Port LEDs	Green (Flashing)	Data activity.

6.2 Management and Configuration

The AXIS D8208-R is a managed switch, offering a range of configuration options for network optimization and security.

- **Web-based GUI:** Access the switch's web interface via a standard web browser to configure VLANs, QoS, port settings, PoE management, security features, and more.
- **CLI:** For advanced users, the Command Line Interface provides granular control over all switch functions.
- **SNMP:** The switch supports SNMP for integration with network management systems.

7. Maintenance

7.1 Cleaning

To maintain optimal performance, periodically clean the exterior of the switch.

- Ensure the power is disconnected before cleaning.
- Use a soft, dry cloth to wipe the exterior surfaces.
- Do not use liquid or aerosol cleaners, as they may damage the device.
- Keep ventilation openings clear of dust and debris.

7.2 Firmware Updates

Regularly check the Axis Communications website for the latest firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements.

- Download the appropriate firmware file from the official Axis Communications support page for your model.
- Follow the instructions provided with the firmware update package for the correct update procedure, typically performed via the web interface.

8. Troubleshooting

If you encounter issues with your AXIS D8208-R switch, refer to the following common troubleshooting steps.

- **No Power:**
  - Check power cable connections to the switch and the power source.
  - Verify the power supply is functioning correctly and providing the correct voltage.
  - Ensure the P1/P2 LEDs are illuminated.
- **No Network Connectivity:**
  - Check Ethernet cable connections for both the switch and the connected device.
  - Verify the link/activity LEDs on the respective port are active.
  - Ensure the connected device is powered on and configured correctly.
  - Check switch configuration (VLANs, port status) via the web interface or CLI.
- **PoE Device Not Powering On:**
  - Ensure the connected device is PoE compatible and within the switch's PoE budget.
  - Check the PoE status for the port in the switch's management interface.
  - Verify the Ethernet cable is a standard Cat5e/6 or higher.
- **Accessing Web Interface Fails:**
  - Confirm your computer's IP address is in the same subnet as the switch, or that DHCP is functioning.
  - Try accessing the switch via the console port to verify its IP configuration.
  - Clear your browser's cache or try a different browser.
- **Factory Reset:** If issues persist and you need to restore default settings, press and hold the reset button for approximately 10-15 seconds until the SYS LED changes behavior, then release. *Warning: This will erase all custom configurations.*

9. Specifications

Feature	Detail
Brand	Axis Communications
Model Number	02621-001
Product Name	AXIS D8208-R Industrial 8-Port Managed PoE++ Switch

Feature	Detail
Ports	8 x PoE++ Ethernet (1G/2.5G), 2 x 10G SFP+
Power Input	Redundant DC power input (terminal blocks)
Item Weight	3.37 pounds (approx. 1.53 kg)
Package Dimensions	1.97 x 0.79 x 0.79 inches (approx. 5 x 2 x 2 cm)
Manufacturer	AXIS - ACCESS CONTROL
Date First Available	May 29, 2024

10. Warranty and Support

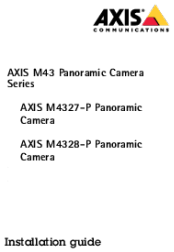
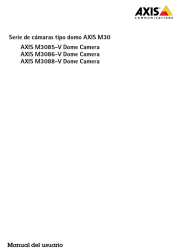
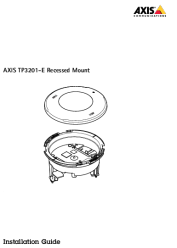
For detailed warranty information, technical support, and additional resources, please visit the official Axis Communications website.

Website: www.axis.com

Contact Axis Communications support for assistance with product installation, configuration, or troubleshooting beyond the scope of this manual.

Related Documents - 02621-001

	Axis Network Switch Configuration Guide - Setup and Management Comprehensive guide for network administrators on configuring and managing AXIS T85 and D8208-R network switches. Covers setup, features, security, and troubleshooting.
	AXIS High PoE Midspan and Splitters Installation Guide Installation guide for AXIS T8123 High PoE Midspan and AXIS T8126/T8128 High PoE Splitters, covering setup, specifications, and troubleshooting for Power over Ethernet solutions.
	AXIS D6310 Air Quality Sensor Installation Guide Comprehensive installation guide for the AXIS D6310 Air Quality Sensor. Learn how to install, connect, and configure your device safely and effectively. Includes regulatory compliance, safety instructions, and technical specifications.

	AXIS M43 Panoramic Camera Series Installation Guide This installation guide provides essential information for setting up the AXIS M43 Panoramic Camera Series, including models AXIS M4327-P and AXIS M4328-P. It covers installation procedures, safety, and regulatory compliance.
	Manual del usuario de cámaras tipo domo AXIS M30 Guía completa para la instalación, configuración y uso de las cámaras tipo domo AXIS M30, incluyendo detalles sobre imagen, vídeo, audio, aplicaciones y ciberseguridad.
	AXIS TP3201-E Recessed Mount Installation Guide This guide provides instructions for installing the AXIS TP3201-E Recessed Mount, including safety information, legal considerations, and step-by-step assembly procedures for compatible AXIS camera models.