SDS-G3006-2GTXSFP-T

Generic SDS-G3006-2GTXSFP-T Industrial Gigabit Smart Ethernet Switch User Manual

Model: SDS-G3006-2GTXSFP-T

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Generic SDS-G3006-2GTXSFP-T Compact Industrial Full Gigabit Smart Ethernet Switch. This device is designed for industrial environments, offering robust networking capabilities with 4 PoE+ Gigabit Ethernet ports and 2 SFP ports. Please read this manual thoroughly before using the product to ensure proper and safe operation.

SAFETY INFORMATION

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

- Ensure the power supply voltage is within the specified range.
- Do not operate the device in environments exceeding its specified temperature and humidity limits (-40 to 75°C).
- Avoid exposing the device to water or excessive moisture.
- Do not open the device casing; refer all servicing to qualified personnel.
- Properly ground the device to prevent electrical hazards.
- Use appropriate cabling for industrial environments.

PACKAGE CONTENTS

Verify that your package contains the following items:

- 1 x SDS-G3006-2GTXSFP-T Industrial Gigabit Smart Ethernet Switch
- Quick Installation Guide (if applicable)
- Mounting Kit (if applicable)
- Terminal Block for Power Input (if applicable)

If any items are missing or damaged, please contact your vendor immediately.

PRODUCT OVERVIEW

Front Panel Layout

The front panel of the SDS-G3006-2GTXSFP-T switch features the network ports and LED indicators. Its compact and flexible housing design allows it to fit into confined spaces.

Figure 1: Front view of the SDS-G3006-2GTXSFP-T Industrial Gigabit Smart Ethernet Switch. This image displays the compact design, including the 4 PoE+ Gigabit Ethernet ports and 2 SFP ports, along with status LEDs for power and network activity.

LED Indicators

- **PWR LED:** Indicates power status. Green for normal operation.
- **FAULT LED:** Indicates system fault. Red for fault condition.
- **LINK/ACT LEDs (per port):** Green for link, blinking for activity.
- **PoE LEDs (per PoE+ port):** Indicates PoE power status.

Ports

- **Gigabit Ethernet Ports (RJ45):** 4 ports supporting 10/100/1000Base-T, IEEE 802.3af/at PoE+.
- **SFP Ports:** 2 Gigabit SFP slots for fiber optic connections.
- **Console Port:** For local management and configuration.

SETUP AND INSTALLATION

Mounting the Switch

The SDS-G3006-2GTXSFP-T switch can be mounted on a DIN-rail or wall-mounted. Ensure adequate space for ventilation and cable routing.

1. **DIN-Rail Mounting:** Attach the DIN-rail clip to the rear of the switch. Hook the top of the clip onto the DIN-rail and push the bottom until it snaps into place.
2. **Wall Mounting:** Use the provided wall-mount bracket (if included) and screws to secure the switch to a solid surface.

Power Connection

Connect the power source to the terminal block on the switch. Ensure correct polarity and a stable power supply within the specified voltage range.

- Connect the positive (+) wire to the V+ terminal.
- Connect the negative (-) wire to the V- terminal.
- Connect the ground wire to the ground terminal.

Network Connection

Connect network devices to the RJ45 ports using standard Ethernet cables. For fiber optic connections, insert compatible SFP transceivers into the SFP slots and connect fiber optic cables.

- For PoE+ devices, connect them to the PoE+ enabled RJ45 ports.
- Ensure cables are securely connected.

OPERATION

Powering On

Once the power supply is connected, the switch will power on automatically. Observe the PWR LED to confirm normal operation.

Network Connectivity

After connecting network devices, the corresponding LINK/ACT LEDs will illuminate, indicating a successful connection. Blinking LEDs signify data transmission.

PoE+ Functionality

The PoE+ ports automatically detect and provide power to compatible Powered Devices (PDs) such as IP cameras or wireless access points. The PoE LEDs will indicate power delivery status, with up to 36 watts output per PoE+ port in high-power mode.

Management and Configuration

The SDS-G3006-2GTXSFP-T is a smart Ethernet switch, offering various management options:

- **Web-based Management:** Access the switch's web interface via a standard web browser by entering its IP address.
- **CLI (Command Line Interface):** Connect via the console port using a terminal emulator for advanced configuration.
- **SNMP:** Integrate with network management systems using SNMP protocols.

Refer to the detailed software manual for comprehensive configuration instructions.

Maintenance

Cleaning

Regularly clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and debris.

Firmware Updates

Periodically check the manufacturer's website for firmware updates. Keeping the firmware up-to-date ensures optimal performance and security.

Environmental Checks

Ensure the operating environment remains within the specified temperature and humidity ranges to prevent hardware degradation.

Troubleshooting

Problem	Possible Cause	Solution
No Power (PWR LED Off)	No power input; faulty power supply; incorrect wiring.	Check power cable connection; verify power source; ensure correct terminal block wiring.
No Link (LINK/ACT LED Off)	Faulty cable; incorrect port; connected device is off or faulty.	Replace Ethernet cable; try a different port; ensure connected device is powered on and functional.
PoE Device Not Powering On	Device not PoE compatible; excessive power draw; faulty cable.	Verify device PoE compatibility; check total power budget; replace cable.
Network Access Issues	Incorrect IP configuration; network loop; software configuration error.	Verify IP settings; check for network loops; consult the software manual for configuration.

If problems persist, contact technical support.

Specifications

Feature	Detail
Model	SDS-G3006-2GTXSFP-T
Ports	4 x 10/100/1000Base-T (PoE+), 2 x Gigabit SFP
PoE Standard	IEEE 802.3af/at
PoE+ Output	Up to 36 watts per PoE+ port

Feature	Detail
Operating Temperature	-40 to 75°C (-40 to 167°F)
Item Weight	16.99 pounds (7.71 kg)
Manufacturer	Moxa
First Available	March 18, 2025

WARRANTY AND SUPPORT

Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the manufacturer's official website for detailed warranty terms and conditions.

Technical Support

For technical assistance, troubleshooting, or product inquiries, please contact your vendor or the manufacturer's customer support. Have your product model number (SDS-G3006-2GTXSFP-T) and serial number ready when contacting support.
Manufacturer: Moxa
Brand: Generic