BAYDE 1783-US16T

BAYDE 1783-US16T Stratix 2000 Industrial Ethernet Switch User Manual

Model: 1783-US16T

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the BAYDE 1783-US16T Stratix 2000 Industrial Ethernet Switch. This device is designed for robust industrial environments, offering 16 copper ports for reliable network connectivity. Please read this manual thoroughly before using the product to ensure proper and safe operation.

Safety Information

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure the power supply is disconnected before installation or maintenance.
- Only qualified personnel should perform installation and servicing.
- Operate the device within the specified environmental conditions (temperature, humidity).
- Do not expose the device to moisture or extreme temperatures.
- Use appropriate grounding procedures as per local electrical codes.

Product Overview

The BAYDE 1783-US16T Stratix 2000 is a managed industrial Ethernet switch featuring 16 copper ports. It is

designed for reliable data transmission in demanding industrial applications.

Key Features:

- 16 Copper Ports for extensive connectivity.
- Managed switch capabilities for network control.
- Robust design suitable for industrial environments.
- Original new product from the brand original factory, ensuring quality.

Component Identification:

Figure 1: Front View. This image displays the front panel of the Stratix 2000 switch, showing the 16 copper Ethernet ports, labeled 1 through 16, arranged in two columns. Above the ports, there are two LED indicators for power (PWR1 and PWR2). The model number "1783-US16T" is visible at the bottom.

Figure 2: Angled Front View. This image provides an angled perspective of the switch, highlighting the front panel with its 16 copper ports and power indicators, along with a partial view of the side panel showing ventilation slots.

Figure 3: Rear View. This image shows the rear of the switch, featuring a metal mounting bracket for DIN rail installation. Various regulatory compliance markings and product information labels are visible on the side panel.

Figure 4: Side View with Power Input. This image displays the side of the switch, revealing the power input terminal block (PWR1, PWR2) and a ground screw. Below the power input, there are two DIP switches labeled SW1 and SW2, and an ON/OFF switch.

Setup and Installation

Mounting:

The 1783-US16T switch is designed for DIN rail mounting. Ensure the mounting surface is stable and provides adequate ventilation.

1. Attach the DIN rail mounting bracket securely to the desired location.
2. Align the switch with the DIN rail and press firmly until it clicks into place.
3. Verify that the switch is securely fastened and does not wobble.

Power Connection:

Connect the power supply to the terminal block on the side of the switch (refer to Figure 4).

- Ensure the power source matches the input voltage requirements (24V DC, 0.35A).
- Connect the positive (+) and negative (-) wires to the corresponding terminals for PWR1 and/or PWR2.
- Connect the ground wire to the ground screw.
- Verify all connections are tight and secure.

Network Connection:

Connect Ethernet cables to the RJ45 ports on the front of the switch (refer to Figure 1).

- Use standard Cat5e or Cat6 Ethernet cables.
- Connect your network devices (PLCs, HMI, computers, etc.) to any of the 16 copper ports.
- The link/activity LEDs on each port will illuminate to indicate a successful connection and data activity.

Operation

Powering On/Off:

After connecting the power supply, use the ON/OFF switch located on the side of the unit (refer to Figure 4) to power the device.

- To power on, switch to the "ON" position. The PWR1 and PWR2 LEDs on the front panel should illuminate.
- To power off, switch to the "OFF" position. All LEDs should turn off.

LED Indicators:

LED	Status	Description
PWR1/PWR2	Solid Green	Power supply is connected and operational.
Port Link/Activity	Solid Green	Network link established.
Port Link/Activity	Flashing Green	Data activity on the port.

Managed Features (DIP Switches):

The Stratix 2000 switch includes DIP switches (SW1, SW2) for basic configuration. Refer to the detailed product documentation for specific functions of these switches, as they typically control features like default IP address, boot mode, or reset options.

- **SW1:** Typically controls network configuration settings.
- **SW2:** Often used for factory reset or advanced boot options.
- Consult the full technical manual for precise DIP switch configurations and their effects.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your industrial Ethernet switch.

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation slots are clear of dust and debris to prevent overheating.

- **Cable Inspection:** Regularly inspect all connected Ethernet and power cables for signs of wear or damage. Replace any damaged cables immediately.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates. Follow the provided instructions carefully for any update procedures.

Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
No power (PWR LEDs off)	No power supply, incorrect wiring, or power switch off.	Check power connections, ensure power switch is ON, verify power source voltage.
Port Link LED off	Cable not connected, faulty cable, or connected device is off/faulty.	Ensure cable is securely connected, try a different cable, check the connected device.
Network connectivity issues	IP address conflict, incorrect network settings, or excessive network traffic.	Verify IP configurations, check network settings on connected devices, consider network segmentation.
Device overheating	Blocked ventilation or high ambient temperature.	Clear ventilation slots, ensure adequate airflow, reduce ambient temperature if possible.

If the problem persists after attempting these solutions, please contact technical support.

Specifications

Attribute	Detail
Model No.	1783-US16T
Brand	BAYDE (for Allen Bradley)
Product Type	Managed Industrial Ethernet Switch
Number of Ports	16 Copper Ports
Connector Type	RJ45 (Ethernet)
Material	Copper (Contact Material)
Input Power	24V DC, 0.35A

Attribute	Detail
Manufacturer	BAYDE
Country of Origin	China
First Available Date	May 6, 2023
UPC	614160206945

Warranty and Support

Quality Assurance:

All BAYDE products are original new and produced by the brand's original factory, ensuring high quality and reliability.

Technical Support:

For technical assistance, troubleshooting beyond this manual, or inquiries regarding other model requirements (PLC/AC Drive/Industry Panel/Collection of Module Accessories), please contact your supplier or the manufacturer directly. Ensure you have your product model number (1783-US16T) and any relevant purchase information ready when contacting support.