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MODEL: NIM-2T

1. Introduction

This manual provides essential instructions for the installation, operation, and maintenance of the CISCO DESIGNED NIM-2T= 2-Port Serial WAN Interface FD. This Network Interface Module (NIM) is designed to expand the WAN connectivity capabilities of compatible Cisco routers by providing two serial ports. Please read this manual thoroughly before installing or operating the device to ensure proper functionality and to prevent damage.

2. Safety Information

Observe the following safety precautions to prevent injury and damage to the equipment:

- Always disconnect power from the host router before installing or removing the NIM.
- Wear an ESD (Electrostatic Discharge) wrist strap when handling the module to prevent static damage.
- Ensure proper ventilation around the host router to prevent overheating.
- Do not expose the module to moisture or extreme temperatures.
- Only use compatible cables and accessories.

3. Product Overview

The NIM-2T= is a 2-port serial WAN interface module designed for Cisco Integrated Services Routers (ISRs). It provides two high-speed serial connections for Wide Area Network (WAN) connectivity, supporting various serial protocols.

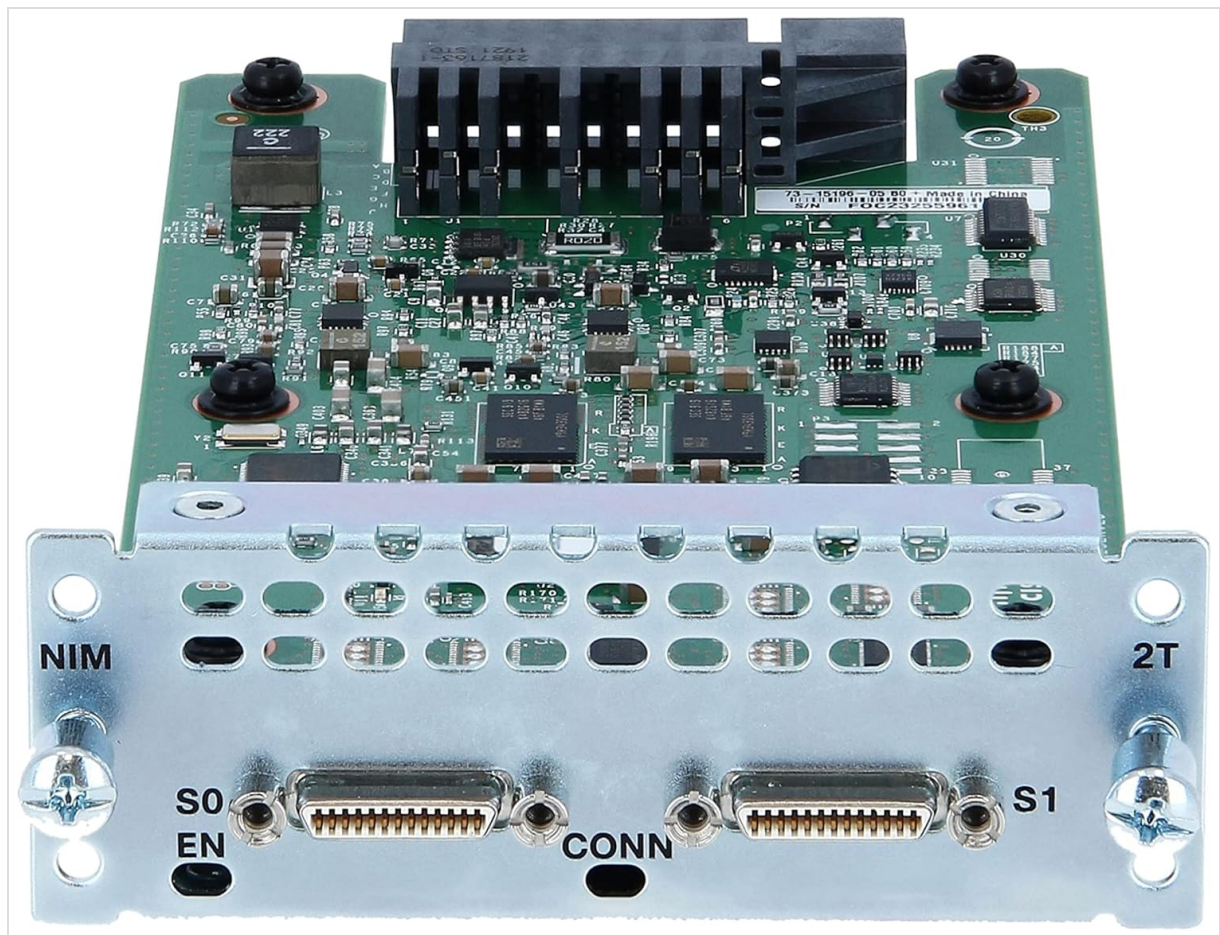


Figure 1: Front view of the NIM-2T= module. The image displays the circuit board with a metal faceplate. The faceplate features two D-sub type serial ports, clearly labeled 'S0' and 'S1', for connecting to WAN lines. The top of the module shows the connector that interfaces with the host router's backplane.

Key components visible on the module include:

- **Serial Ports (S0, S1):** Two D-sub connectors for serial WAN connections.
- **Host Connector:** The larger connector at the top, used to interface with the router's internal slot.
- **Mounting Screws:** Used to secure the module within the router chassis.

4. Setup and Installation

Follow these steps to properly install the NIM-2T= module into a compatible Cisco router:

1. **Power Down Router:** Ensure the host router is powered off and disconnected from its power source.
2. **Locate NIM Slot:** Identify an available Network Interface Module (NIM) slot on your Cisco router. Refer to your router's documentation for slot locations.
3. **Remove Blank Panel (if applicable):** If a blank panel covers the slot, remove it by unscrewing the retaining screws.
4. **Insert NIM:** Carefully align the NIM-2T= module with the chosen slot. Gently slide the module into the slot until the host connector is fully seated. Apply even pressure to ensure it clicks into place.
5. **Secure Module:** Use the captive screws on the NIM's faceplate to secure the module to the router chassis. Tighten the screws firmly but do not overtighten.
6. **Connect Cables:** Connect your serial WAN cables to the S0 and S1 ports on the NIM faceplate. Ensure the connectors are securely fastened.
7. **Power On Router:** Reconnect the router's power source and power it on. The router should detect

the new module.

5. Operating the Module

Once installed, the NIM-2T= module requires configuration via the Cisco IOS Command Line Interface (CLI) on the host router. This involves configuring the serial interfaces (e.g., Serial0/X/0 and Serial0/X/1, where X is the slot number).

Typical configuration tasks include:

- Setting encapsulation type (e.g., HDLC, PPP, Frame Relay).
- Assigning IP addresses.
- Configuring clock rates (for DCE interfaces).
- Enabling the interface.

Refer to the specific Cisco IOS configuration guides for your router model for detailed command syntax and examples.

6. Maintenance

The NIM-2T= module is designed for reliable operation with minimal maintenance. However, periodic checks and proper handling can extend its lifespan:

- **Cleaning:** Keep the module and its connectors free from dust and debris. Use a soft, dry, lint-free cloth. Avoid liquid cleaners.
- **Cable Integrity:** Periodically inspect serial cables for wear or damage. Replace damaged cables immediately.
- **Firmware:** Ensure your host router's Cisco IOS software is up-to-date, as this often includes updated drivers and support for installed modules.
- **Environmental Conditions:** Maintain the operating environment within specified temperature and humidity ranges to prevent component stress.

7. Troubleshooting

If you encounter issues with your NIM-2T= module, consider the following troubleshooting steps:

- **Module Not Detected:**
 - Verify the module is fully seated in its slot.
 - Ensure the captive screws are tightened.
 - Power cycle the router.
 - Check router logs for error messages related to module detection.
- **Serial Interface Down:**
 - Check cable connections at both ends.
 - Verify interface configuration in Cisco IOS (e.g., show interface serial X/Y/Z).
 - Ensure clock rates are correctly configured, especially for DCE interfaces.
 - Check for physical damage to the module or cable.
- **Performance Issues:**
 - Check for interface errors or drops using show interface commands.
 - Verify bandwidth and line coding settings.

- Ensure the connected DSU/CSU or other serial device is functioning correctly.

For advanced troubleshooting, consult Cisco's official documentation or contact technical support.

8. Specifications

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|-----------------------------------|--|
| Brand | CISCO DESIGNED |
| Model Number | NIM-2T |
| Product Type | Computer Component (Network Interface Module) |
| Item Weight | 1 pounds |
| Product Dimensions (LxWxH) | 16.14 x 10.63 x 2.76 inches |
| Voltage | 240 Volts (Operating voltage for host router, not module directly) |
| Manufacturer | CISCO SYSTEMS - ENTERPRISE |
| Country Of Origin | China |

9. Warranty Information

The CISCO DESIGNED NIM-2T= module is typically covered by Cisco's standard hardware warranty. Warranty terms and conditions can vary based on the region and the specific purchase agreement. For detailed warranty information, please refer to the official Cisco warranty documentation provided with your product or visit the Cisco website.

Keep your proof of purchase for warranty claims.

10. Technical Support

For technical assistance, further documentation, or to report issues, please contact Cisco Technical Assistance Center (TAC) or refer to the extensive resources available on the official Cisco website:

- **Cisco Support Website:** www.cisco.com/go/support
- **Documentation:** Consult the specific installation and configuration guides for your Cisco router model and IOS version.