Cisco N77-C7706-B26S2E-R

Cisco Nexus 7706 Bundle Network Switch Instruction Manual

Model: N77-C7706-B26S2E-R

1. PRODUCT OVERVIEW

The Cisco Nexus 7706 Bundle is a high-performance, modular data center-class switch designed for mission-critical deployments. This bundle includes the Nexus 7706 chassis, two Supervisor Engine 2E modules (SUP2E), six Fabric Module 2 (FAB2) modules, and three AC power supplies. It provides a robust and scalable platform for network infrastructure.

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Cisco Nexus 7706 Bundle.
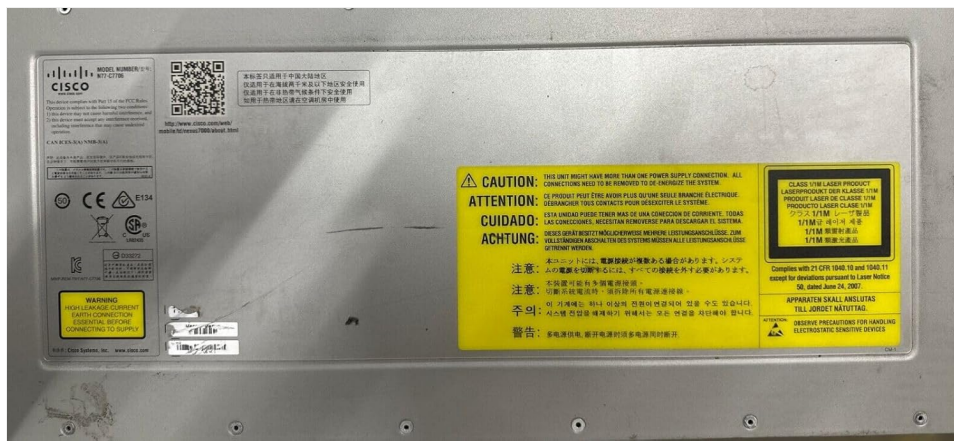
Figure 1: Front view of the Cisco Nexus 7706 chassis. This image displays the modular design, showing slots for supervisor engines, fabric modules, and line cards, along with the Cisco Nexus 7706 branding.

2. SAFETY INFORMATION

Before installing, operating, or maintaining the Cisco Nexus 7706, read all safety warnings and instructions. Failure to follow these guidelines can result in serious injury or equipment damage.

- Ensure proper grounding of the chassis.
- This unit might have more than one power supply connection. All connections need to be removed to de-energize the system.
- Observe precautions for handling electrostatic sensitive devices.
- Do not use fan tray handles to lift or move the chassis.

Figure 2: Warning labels on the chassis. These labels highlight critical safety information, including warnings about multiple power supply connections and precautions for handling electrostatic sensitive devices.

Figure 3: Rear view of the chassis with fan trays. Each fan tray has a clear warning label stating, "DO NOT USE FAN TRAY HANDLES TO LIFT/MOVE CHASSIS," emphasizing proper handling procedures.

3. SETUP AND INSTALLATION

The Cisco Nexus 7706 is a heavy device and requires proper handling and installation procedures. Refer to the official Cisco documentation for detailed installation instructions.

3.1 Unpacking and Inspection

1. Carefully unpack the chassis and all components.
2. Inspect all items for any signs of damage during transit. Report any damage to the carrier and Cisco support immediately.
3. Verify that all components listed in your packing slip are present.

3.2 Rack Mounting

The Nexus 7706 chassis is designed for rack mounting. Use appropriate rack-mount kits and ensure the rack can support the weight of the fully configured chassis (372 kg / 820 lbs for an empty chassis, as indicated on the label).

- Ensure adequate clearance for airflow and cable management.
- Secure the chassis firmly to the rack using all designated mounting points.

Figure 4: Side view of the chassis. This image highlights the side handles for maneuvering and a warning label indicating the substantial weight of the empty chassis (372 kg / 820 lbs), emphasizing the need for proper lifting equipment.

3.3 Component Installation (Supervisor Engines, Fabric Modules, Power Supplies)

Install the Supervisor Engine 2E modules, Fabric Module 2 modules, and AC power supplies into their designated slots. Ensure each module is fully seated and secured according to Cisco's installation guidelines.

- Always handle modules by their edges or designated handles.
- Ensure power supplies are correctly inserted and connected to appropriate power sources.

3.4 Initial Power-Up

After all components are installed and secured, connect the power cables to the power supplies and then to the power outlets. Observe the system's boot sequence and indicator lights.

4. OPERATING INSTRUCTIONS

The Cisco Nexus 7706 operates on Cisco NX-OS software. Configuration and management are typically performed via a command-line interface (CLI) or a graphical user interface (GUI) if supported.

4.1 Initial Configuration

Connect to the console port using a serial cable and a terminal emulator. Follow the on-screen prompts for initial setup, including setting up basic network parameters, passwords, and management interfaces.

4.2 Software Management

Regularly update the NX-OS software to ensure optimal performance, security, and access to new features. Refer to Cisco's official documentation for software upgrade procedures.

4.3 Monitoring System Status

Monitor the system's health using CLI commands (e.g.,show system health, show environment) or network management tools. Pay attention to LED indicators on the chassis and modules for quick status checks.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Cisco Nexus 7706.

- **Environmental Control:** Maintain proper operating temperature and humidity in the data center.
- **Airflow:** Ensure unobstructed airflow around the chassis. Regularly inspect and clean air filters if present.
- **Cable Management:** Keep all cables neatly organized to prevent interference and ensure proper airflow.
- **Firmware Updates:** Apply recommended firmware and software updates as released by Cisco.

6. TROUBLESHOOTING

This section provides general troubleshooting guidance. For detailed diagnostics, refer to Cisco's official troubleshooting guides.

6.1 Common Issues and Solutions

- **Power Issues:** Verify all power cables are securely connected and power sources are active. Check power supply LEDs.
- **Module Not Online:** Ensure modules are fully seated in their slots. Check module-specific LEDs for status.
- **Network Connectivity:** Verify cable connections, port configurations, and VLAN settings.
- **System Alarms:** Consult system logs and Cisco documentation for specific alarm codes and recommended actions.

6.2 Contacting Support

If you encounter issues that cannot be resolved using this manual or Cisco's online resources, contact Cisco Technical Assistance Center (TAC) for support.

7. SPECIFICATIONS

Feature	Description
Model Number	N77-C7706-B26S2E-R
Brand	Cisco
Chassis Type	Nexus 7706
Supervisor Engines	2x SUP2E (Supervisor Engine 2E)
Fabric Modules	6x FAB2 (Fabric Module 2)
Power Supplies	3x AC Power Supplies
Included Components	DVD
UPC	657768658679
Empty Chassis Weight	372 kg (820 lbs) - *Refer to chassis label for exact weight.*

8. WARRANTY AND SUPPORT

This product is a renewed item. Please refer to the seller's warranty policy for specific details regarding coverage and duration. For technical support and additional documentation, visit the official Cisco website.

Cisco Mobile Documentation: For more information on the Nexus 7000 series, you can visit the official Cisco

mobile documentation page: http://www.cisco.com/web/mobile/td/nexus7000/about.html