NETGEAR XS748T

NETGEAR XS748T 48-Port 10G Ethernet Smart Switch User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and maintenance of the NETGEAR XS748T 48-Port 10G Ethernet Smart Switch. The XS748T is a managed switch designed for desktop or rackmount deployment, offering high-speed 10 Gigabit Ethernet connectivity and advanced management features for robust network environments.

2. PRODUCT OVERVIEW

The NETGEAR XS748T is a high-performance Smart Managed Pro Switch featuring 44 x 10G Ethernet ports and 4 x 10G SFP+ ports. It is engineered to provide reliable and efficient network connectivity for demanding applications.

Figure 2.1: Front view of the NETGEAR XS748T 48-Port 10G Ethernet Smart Switch. This image displays the full front panel with all 48 ports and indicator LEDs.

3. PACKAGE CONTENTS

Verify that your package contains all the items listed below:

- NETGEAR ProSAFE® 48-port 10-Gigabit Ethernet Smart Managed Switch (XS748T)
- Power cord(s) (localized to country of sale)
- Rack-mounting kit

- Rubber footpads for tabletop installation
- Quick Install Guide (QIG)
- Resource CD with Smart Control Center Utility (SCC) software, detailed Hardware Installation Guide (HIG), MIB files, and links to the support website for additional documentation.

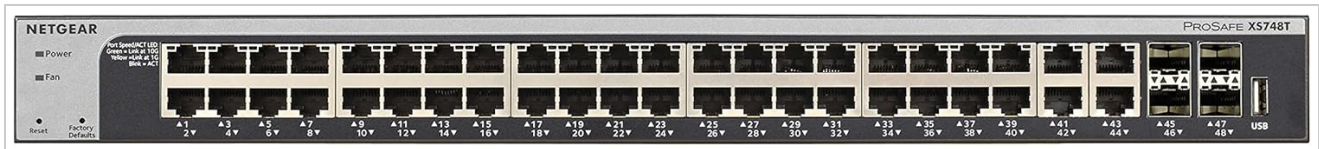# 4. PHYSICAL FEATURES

4.1 Front Panel

Figure 4.1: Detailed view of the front panel, highlighting the Ethernet ports, SFP+ ports, and status indicators.

The front panel of the XS748T switch includes the following components:

- **44 x 10G Ethernet Ports:** RJ-45 connectors for high-speed network connections.
- **4 x 10G SFP+ Ports:** Slots for fiber optic transceivers, providing flexible uplink options.
- **Power LED:** Indicates the power status of the switch.
- **Fan LED:** Indicates the operational status of the cooling fan.
- **Reset Button:** Recessed button to restart the switch.
- **Factory Defaults Button:** Recessed button to restore the switch to its factory default settings.
- **Port Status LEDs:** Indicators for link/activity and speed for each Ethernet port.

4.2 Rear Panel

Figure 4.2: Rear view of the switch, showing the power input and grounding screw.

The rear panel typically contains the AC power input connector and a grounding screw for electrical safety.

5. SETUP

Follow these steps to set up your NETGEAR XS748T switch:

1. **Unpack the Switch:** Carefully remove the switch and all accessories from the packaging.
2. **Choose a Location:** Select a suitable location for the switch, either on a desktop or in a standard 19-inch equipment rack. Ensure adequate ventilation.
3. **Install Mounting Hardware:** If rack-mounting, attach the provided rack-mounting kit to the switch and secure it in the rack. For desktop use, attach the rubber footpads.
4. **Connect Power:** Connect the provided power cord to the AC power input on the rear panel of the switch and then to a power outlet. The Power LED on the front panel should illuminate.
5. **Connect Network Devices:** Connect your network devices (servers, workstations, other switches) to the 10G Ethernet or 10G SFP+ ports using appropriate cables.
6. **Initial Configuration:** Refer to the Quick Install Guide (QIG) or the detailed Hardware Installation Guide (HIG)

on the Resource CD for initial network configuration, including setting up an IP address for management access.

6. OPERATING INSTRUCTIONS

The NETGEAR XS748T switch features a Smart software with an easy-to-use web-based management interface. This interface allows for secure setup, access, and SNMP (NMS 300) management.

- **Accessing the Management Interface:** Open a web browser and enter the IP address of the switch. Log in using the default credentials (refer to the QIG for details).
- **VLAN Configuration:** The switch supports Virtual Local Area Networks (VLANs) to segment network traffic and enhance security. Detailed instructions for VLAN setup are available in the Software Administration User Manual on the Resource CD.
- **SNMP Management:** Utilize Simple Network Management Protocol (SNMP) for network monitoring and management. The switch supports SNMP for integration with network management systems.
- **Access Control Lists (ACLs):** Configure ACLs to filter network traffic based on various criteria, providing granular control over network access.
- **Link Aggregation (LAG):** Combine multiple physical links into a single logical link to increase bandwidth and provide redundancy.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your switch.

- **Firmware Updates:** Periodically check the NETGEAR support website for the latest firmware updates. Updating the firmware can provide new features, performance improvements, and security patches. Follow the instructions provided with the firmware download carefully.
- **Cleaning:** Keep the switch free from dust and debris. Use a soft, dry cloth for cleaning. Ensure ventilation openings are clear.
- **Factory Reset:** In case of configuration issues or forgotten passwords, the switch can be restored to factory default settings using the recessed Factory Defaults button on the front panel. This will erase all custom configurations.

8. TROUBLESHOOTING

If you encounter issues with your NETGEAR XS748T switch, consider the following:

- **No Power:** Ensure the power cord is securely connected to both the switch and a working power outlet. Check the Power LED status.
- **No Link/Activity:** Verify that Ethernet cables are properly connected to both the switch and the network device. Check the corresponding Port Status LEDs. Ensure connected devices are powered on and functioning correctly.
- **Cannot Access Management Interface:** Confirm that your computer is on the same network segment as the switch or has a route to the switch's IP address. Verify the switch's IP address and your computer's network settings. Try resetting the switch to factory defaults if the IP address is unknown or inaccessible.
- **Performance Issues:** Check for network congestion, faulty cables, or incorrect port configurations (e.g., speed/duplex mismatch). Ensure firmware is up to date.

For further assistance, consult the detailed documentation on the Resource CD or visit the NETGEAR support website.

9. SPECIFICATIONS

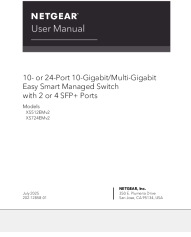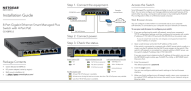| Feature	Specification
Model Number	XS748T
Number of Ports	48 (44 x 10G Ethernet, 4 x 10G SFP+)
Data Transfer Rate	10 Gigabits Per Second
Interface Type	SFP, RJ-45
Item Weight	17.16 pounds (7.8 Kilograms)
Product Dimensions (LxWxH)	12.2 x 17.3 x 1.7 inches
RAM	512 MB
Flash Memory Size	256 MB
Voltage	240 Volts (Input range typically 100-240V AC)
Energy Efficiency	IEEE802.3az compliant
Operation	Quiet operation

10. WARRANTY AND SUPPORT

The NETGEAR XS748T Smart Switch comes with a Limited Lifetime Hardware Warranty. This includes Next Business Day Replacement service for eligible hardware failures. Additionally, NETGEAR provides 24/7 chat support with a NETGEAR expert for technical assistance.

For detailed warranty terms and conditions, and to access support resources, please visit the official NETGEAR support website or refer to the documentation included with your product.

Related Documents - XS748T

	NETGEAR MS510TXM and MS510TXUP Smart Managed Pro Switch Installation Guide Installation guide for NETGEAR MS510TXM and MS510TXUP 8-Port Multi-Gigabit/10G Ethernet Smart Managed Pro Switches. Covers connection, discovery, configuration, and PoE++ features for enhanced network management.
	NETGEAR MS510TXM and MS510TXUP Smart Managed Pro Switch Installation Guide This guide provides installation instructions for the NETGEAR MS510TXM and MS510TXUP Smart Managed Pro Switches, covering setup, network configuration, PoE status, device detection, and web interface login.
	NETGEAR GS752TPv2/GS752TPP Smart Managed Pro Switch Installation Guide Installation guide for the NETGEAR 48-Port Gigabit PoE+ Smart Managed Pro Switch with 4 SFP Ports (GS752TPv2 and GS752TPP). Learn how to connect, discover, configure, and manage your switch.

[NETGEAR XS512EMv2 & XS724EMv2 10-Gigabit Easy Smart Managed Switch User Manual](#)
Comprehensive user manual for NETGEAR's 10-Port (XS512EMv2) and 24-Port (XS724EMv2) 10-Gigabit/Multi-Gigabit Easy Smart Managed Switches. Covers installation, configuration, performance optimization, VLANs, management, maintenance, and troubleshooting.

[NETGEAR GS108PEv3 8-Port Gigabit Ethernet Smart Managed Plus Switch with 4-Port PoE Installation Guide](#)
Installation guide for the NETGEAR GS108PEv3, an 8-port Gigabit Ethernet Smart Managed Plus Switch featuring 4-Port PoE. Learn how to connect equipment, power the switch, check status, and access advanced configuration features via web browser or utility.

[NETGEAR GS105Ev2 5-Port Gigabit Ethernet Smart Managed Plus Switch Installation Guide](#)
Installation guide for the NETGEAR GS105Ev2 5-Port Gigabit Ethernet Smart Managed Plus Switch, detailing setup, registration, network connection, and IP address discovery.