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› H3C S6800-54QT Ethernet Switch User Manual

Cisco LS-6800-54QT-H1

H3C S6800-54QT Ethernet Switch User Manual

Model: LS-6800-54QT-H1 | Brand: Cisco

PRODUCT OVERVIEW

The H3C S6800-54QT Ethernet Switch (Model LS-6800-54QT-H1) is a high-performance core switch designed for robust network environments. It features 48 10 Gigabit electrical ports and 6 QSFP interface ports, providing extensive connectivity options. Key functions include LACP, POE (Power over Ethernet), QoS (Quality of Service), SNMP (Simple Network Management Protocol), Stackable capabilities, and VLAN (Virtual Local Area Network) support. This full-duplex communication mode switch offers a substantial capacity of 2.56Tbps/40.96Tbps, making it suitable for demanding network applications.

PRODUCT IMAGES



Front view of the H3C S6800-54QT Ethernet Switch, showing 48 10 Gigabit electrical ports and 6 QSFP interface ports.



LS-6800-54QT-H1

Front view of the H3C S6800-54QT Ethernet Switch, with the model number LS-6800-54QT-H1 displayed below the device.

SETUP INSTRUCTIONS

- Unpacking:** Carefully remove the switch from its packaging. Inspect for any visible damage. Retain packaging materials for future transport or storage.
- Placement:** The switch dimensions are 440mm (W) x 460mm (D) x 44mm (H) or approximately 17.32"L x 18.11"W x 1.73"H. Ensure adequate ventilation space around the unit. For rack mounting, use appropriate rack ears and hardware (not included).
- Power Connection:** Connect the power cord to the switch's power input and then to a grounded electrical outlet. Ensure the power source meets the switch's power requirements.
- Network Connections:**
 - Connect Ethernet cables from your network devices (servers, workstations, other switches) to the 48 10 Gigabit electrical ports.
 - For high-speed uplinks or inter-switch connections, use QSFP transceivers and fiber optic cables with the 6 QSFP interface ports.
- Initial Power On:** Power on the switch. Observe the indicator lights for proper boot-up sequence. Refer to the LED status section (if applicable, not detailed here) for light interpretations.

OPERATING THE SWITCH

The H3C S6800-54QT operates in full-duplex communication mode, supporting simultaneous data transmission and reception. Its 54 ports (48 electrical, 6 QSFP) facilitate diverse network topologies.

- Port Configuration:** Individual ports can be configured for various network settings, including VLAN assignments, QoS priorities, and link aggregation (LACP).
- Management:** The switch supports SNMP for network management, allowing administrators to monitor and manage the device remotely. Specific management interfaces (e.g., console port, web interface, SSH) would be used for detailed configuration.
- Stacking:** The switch is stackable, enabling multiple units to operate as a single logical device, simplifying management and increasing network capacity.
- POE Functionality:** If POE is supported on specific ports (check product variant), connected POE-compatible devices

can receive power directly through the Ethernet cable.

MAINTENANCE

- **Cleaning:** Periodically 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 to prevent overheating.
- **Firmware Updates:** Regularly check the manufacturer's website for firmware updates. Applying updates can improve performance, add new features, and address security vulnerabilities.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges to prolong the life of the device.
- **Cable Management:** Maintain organized cable connections to prevent accidental disconnections and improve airflow.

TROUBLESHOOTING

- **No Power:**
Ensure the power cord is securely connected to both the switch and the power outlet. Verify the power outlet is functional. Check the power indicator LED on the switch.
- **No Network Connectivity:**
Verify that Ethernet cables are properly connected to the correct ports on both the switch and the connected device. Check the link/activity LEDs on the switch ports. Ensure IP configurations are correct on connected devices and the switch (if managed).
- **Slow Network Performance:**
Check for excessive network traffic or loops. Ensure duplex settings match between the switch and connected devices. Verify cable quality and length. Consider QoS configurations if specific traffic types are prioritized.
- **Port Not Functioning:**
Try connecting to a different port. Check the cable. If POE is expected, ensure the device is POE-compatible and the port is configured for POE (if applicable).

SPECIFICATIONS

Feature	Detail
Model Number	LS-6800-54QT-H1
Ports	54 (48 x 10 Gigabit Electrical, 6 x QSFP Interface)
Transmission Rate	10 Gigabit (for electrical ports), higher for QSFP ports
Communication Mode	Full-Duplex
Switch Capacity	2.56Tbps/40.96Tbps
Functions Supported	LACP, POE, QoS, SNMP, Stackable, VLAN Support, Radius Certification
Dimensions (W x D x H)	440mm x 460mm x 44mm (17.32"L x 18.11"W x 1.73"H)
Manufacturer	Network-EXP
ASIN	B083YDXBX

Feature	Detail
Date First Available	January 16, 2020

WARRANTY AND SUPPORT

This H3C S6800-54QT Ethernet Switch comes with a**1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of warranty.