



S7600-48X8C Quick Start Guide

48-Port 10Gb Ethernet L3+ Switch

48x 10G SFP+ Ports, with 8x 100G QSFP28 Uplinks, Support MLAG

Quick Start Guide V1.0



Introduction

The S7600-48X8C is a high-performance 10G/100G switch. The product position is to meet the requirements of next generation enterprise, data center, Metro and HCI (Hyper-Converged Infrastructure) networks.

We appreciate your decision to select S7600-48X8C. This manual is intended to help you become acquainted with the switch design and provide instructions for implementing the switches into your network.



Accessories



Power Cord x2



Console Cable x1



RJ45 Ethernet Cable x1



Grounding Cable x1



Rubber Pad x4



Front Mounting Bracket x2



M4 Screw x8



Rear Mounting Bracket x2



Sliding Rail x2

Hardware Overview

Front Panel Ports



Ports	Description
SFP+	SFP+ ports for 1G/10G connection
QSFP28	QSFP28 ports for 40G/100G connection

Back Panel Ports



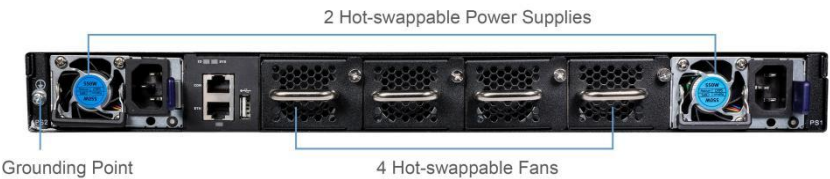
Ports	Description
CON	An RJ45 console port for serial management
ETH	An RJ-45 Ethernet management port
USB	A USB management port for software and configuration backup and offline software upgrade

Front Panel LEDs



LEDs	Status		Description
ID	Blue	On	ID indication function enable
		Off	ID indication function disable
SYS	Green	On	The system is normal running
	Amber	On	The system occur alarm or error.
	-	Off	No power or System is not run or abnormality
ETH	Green	On	Port link.
		Off	Port not link.
SFP+ (Port 1-48)	Green	On	10G port link.
		Blinking	10G packets receiving or transmitting.
	Amber	On	1G port link.
		Blinking	1G packets receiving or transmitting.
	-	Off	Port not link
QSFP28 (Port 49-56)	Green	On	100G/40G port link.
		Blinking	100G/40G packets receiving or transmitting.
	Amber	On	10G/1G port link.
		Blinking	10G/1G packets receiving or transmitting.
	-	Off	Port not link
Breakout	Loop Blinking		One or more 100G/40G ports are breakout
	Off		None of the 100G/40G port is breakout

Back Panel



Installation Requirements

Tools Preparation

- Flathead screwdrivers
- Phillips screwdrivers
- ESD-preventive wrist strap

Temperature/Humidity Requirements:

Temperature	Humidity
0~45°C	10%~95%

Cleanliness Requirements:

Substance	Unit	Concentration limit
DUST	Particle/m3	≤ 3 X 10 ⁴ (No visible dust on the tabletop for three days)
SO ₂	mg/m3	0.2
H ₂ S	mg/m3	0.006
NH ₃	mg/m3	0.05
Cl ₂	mg/m3	0.01
Note: The dust particle size is ≥ 5 μm		

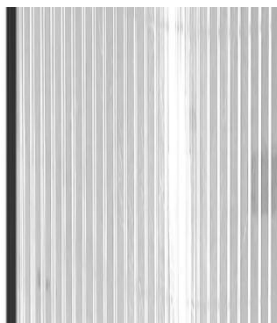
Mounting the Switch

Connecting the Power



1. Plug the AC power cord to the switch power port on the back rear.
2. Connect the other end of the power cord to a AC power source equipment.

Connecting the SFP+ Port



1. Insert the SFP+ module into the SFP+ port.
2. Plug a fiber patch cable to the SFP+ transceiver.
3. Connect the other end of the fiber to the device that you want to realize data communication.

Connecting the QSFP28 Port



1. Insert the QSFP28 module into the QSFP28 port.
2. Plug a fiber patch cable to the QSFP28 transceiver.
3. Connect the other end of the fiber to the device that you want to realize data communication.

Connecting the Management Ports

Connecting the Console Port



1. Prepare an console cable.
2. Insert the RJ45 connector of the console cable into the console port on the switch.
3. Connect the D89 female connector on the other end of the console cable to the serial port on the computer host.

Connecting the ETH Port



1. Prepare an standard RJ45 Ethernet patch cable.
2. Insert one end of the RJ45 Ethernet patch cable to the computer RJ45 port.
3. Connect the RJ45 connector on the other end of the patch cable to the ETH port on the switch.

Connecting the USB Port



1. Prepare an Universal Serial Bus (USB) flash disk.
2. Insert the USB to the switch USB port.

Configuring the Switch

Configuring the Switch Using the Web-based Interface

Step 1: Connect your computer to the switch using an Ethernet cable and open a web browser.

Step 2: Set the IP address of the computer to 192.168.1.x (where "x" is any number from 2 to 254) and the subnet mask to 255.255.255.0.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 1 . 2

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

Step 3: Open a web browser and type <http://192.168.1.2> in the address bar. Enter the default username and password (admin/admin).

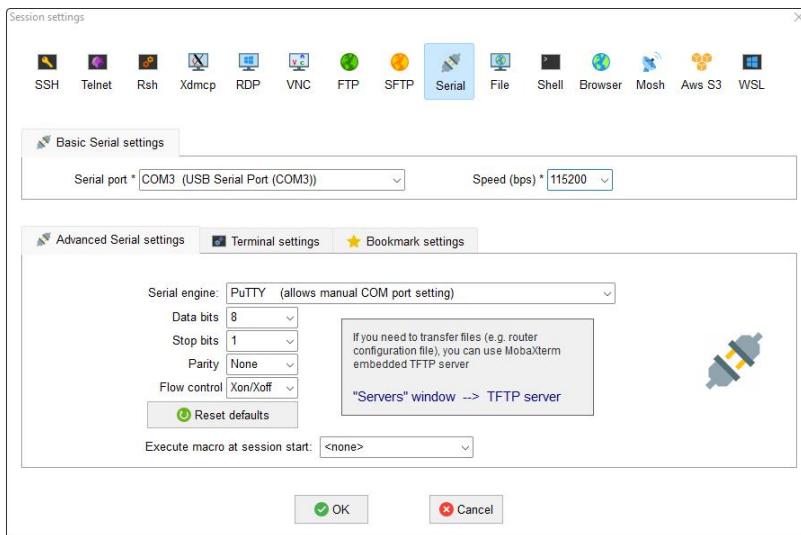
Step 4: Click sign-in to access the web-based configuration page.

Configuring the Switch Using the Console Port

Step 1: Use the console cable to direct connect the switch console port to your computer.

Step 2: Launch the terminal simulation software such as HyperTerminal on the computer.

Step 3: Configure the parameters of the terminal emulation software as follows: 115200 bits per second, 8 data bits, no parity, 1 stop bit, and no flow control.



The screenshot shows the 'Session settings' dialog box with the 'Serial' tab selected. The 'Basic Serial settings' section shows 'Serial port' set to 'COM3 (USB Serial Port (COM3))' and 'Speed (bps)' set to '115200'. The 'Advanced Serial settings' section shows 'Serial engine' set to 'PuTTY (allows manual COM port setting)', 'Data bits' set to '8', 'Stop bits' set to '1', 'Parity' set to 'None', and 'Flow control' set to 'Xon/Xoff'. There is a 'Reset defaults' button and an 'Execute macro at session start' field set to '<none>'. A tip box on the right says 'If you need to transfer files (e.g. router configuration file), you can use MobaXterm embedded TFTP server' with a link to 'Servers' window --> TFTP server. The 'OK' and 'Cancel' buttons are at the bottom.

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP **Serial** File Shell Browser Mosh Aws S3 WSL

Basic Serial settings

Serial port * COM3 (USB Serial Port (COM3)) Speed (bps) * 115200

Advanced Serial settings Terminal settings Bookmark settings

Serial engine: PuTTY (allows manual COM port setting)

Data bits 8

Stop bits 1

Parity None

Flow control Xon/Xoff

Reset defaults

Execute macro at session start: <none>

If you need to transfer files (e.g. router configuration file), you can use MobaXterm embedded TFTP server

["Servers" window --> TFTP server](#)

OK Cancel

Step 4: Enter the default username and password (admin/admin).

Troubleshooting

Loading Failure Processing:

After loading fails, the system will keep running in the original version. At this time, users should refer to the following steps to re-check:

1. if physical port connections are good first. If some ports are not connected, then re-connect them to ensure that physical connections are correct, and begin re-loading.
2. If physical connections are correct, then check the loading process information displayed on the super terminal to verify if there are input errors. If there are input errors, correct them and re-load. For example, when using TFTP protocol, we enter incorrect IP addresses of the Server and Switch, name of loading software, do not specify the correct working path of the correct TFTP server, and so on.
3. if physical connections are good, and there are no input errors in the loading process but the loading fails finally, please contact agents for help.

User Password Lost:

If the system password is lost or forgotten, the following method can be used to reset the password:

1. Enter uBoot operation mode; see Chapter 5 for how to enter;
2. Input `boot_flash_nopass` command to start the system in uBoot mode;

Note: After using the `boot_flash_nopass` command, the system will clear up the startup-config files; before starting this operation, the startup-config files will be stored in `flash:/startup-config.conf.old` file.

Power System Troubleshooting:

The switch can judge if its power system is faulty according to the PWR indicator on the front panel: when the power system works normally, the PWR indicator shall always keep lighting; when the PWR indicator is off, please check if:

1. The power line of the switch is connected correctly.
2. The EPS of the switch matches the power required by the switch.

Configuration System Troubleshooting:

After the switch is powered on, if the system is normal, the startup information will be displayed on the configuration terminal; If no display information on the configuration terminal appears, maybe the configuration system is faulty, please check if:

1. The power is normal.
2. The cable of the configuration port (Console) is properly connected.

If no problems have been found after the above checks, it is possible that the configuration cable is faulty or the parameter setting of the terminal (such as a super terminal) is incorrect, please check accordingly.

3. Troubleshooting for the terminal displaying hashes:

If the configuration terminal displays hashes, it is probable that the parameter setting of the terminal (such as a super terminal) is incorrect Please confirm the parameter setting of the terminal (such as HyperTerminal): baud rate: 115200, data bit: 8, parity: no, stop bit: 1, flow control: NA, selecting terminal emulation: VT100.

Support and Other Resources

- **Contact us** <https://www.qsfptek.com/company/contact-us.html>
- **Email** sales@qsfptek.com
- **Customer Success** <https://www.qsfptek.com/resources/customer-success-stories>

Product Warranty

S7600 series switches are backed by a 5-year limited warranty supported by QSFPTTEK. And you are eligible to apply for a return or exchange of your items within 14 days of receiving them.

For more details about applying qualifications, please live chat or email sales@qsfptek.com for support.



5 Year Warranty



14-day Return Window