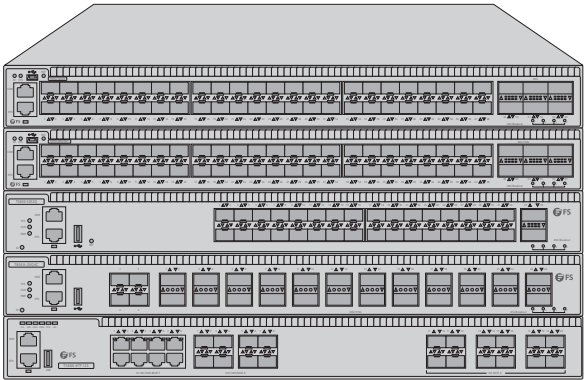# FS

T5850, T5800, T8050 Series
NETWORK PACKET BROKERS
Quick Start Guide V2.0

Introduction

Thank you for choosing T5850, T5800 and T8050 Series Network Packet Brokers. This guide is designed to familiarize you with the layout of the Network Packet Brokers and describes how to deploy it in your network.
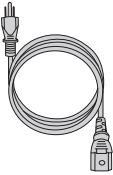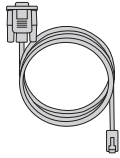

T5850-48S6Q

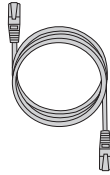T5850-48S2Q4C

T5850-32S2Q

T8050-20Q4C

T5800-8TF12S

Accessories

Power Cord x2

Console Cable x1

Cat5e Cable x1

Grounding Cable x1

Rack Mount Bracket x2

M4 Screw x8

Rubber Pad x4

Hardware Overview

Front Panel Ports

T5850-48S6Q

CON

USB

ETH

SFP+
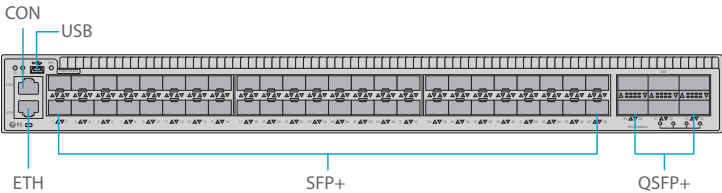
QSFP+

Ports	Description
USB	A USB 2.0 management port
CON	An RJ45 console port for serial management
ETH	An Ethernet management port
SFP+	Hot swappable SFP+ ports for 1G/10G connection
QSFP+	Hot swappable QSFP+ ports for 40G connection

Front Panel Button

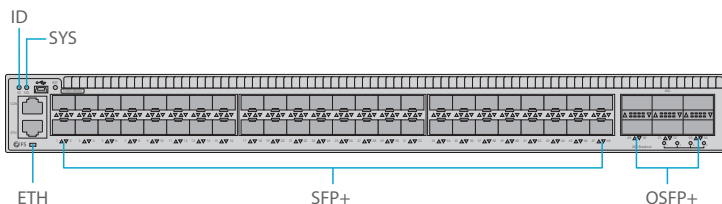T5850-48S6Q

RST
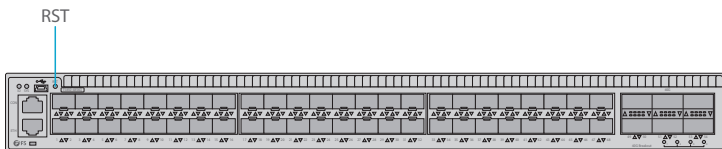
| Button	Description
RST	Restart: Press and release the RST button quickly.
	Restore to Factory Default Settings: Press and hold the RST button for more than five seconds.

Front Panel LEDs

T5850-48S6Q

ID
SYS

ETH   SFP+   QSFP+

LEDs	Status	Description
ID	Green	Help locate the Network Packet Broker.
SYS	Green	On: System is working abnormally.
		Blinking Quickly (2Hz): System is powered on but CPU is not running.
		Blinking Slowly (0.5Hz): System is working normally.
	Amber	On: System occurs alarm or error.
		Blinking Quickly (2Hz): System is in u-boot initiation.
		Blinking Slowly (0.5Hz): System is in system initiation.
	Off	No power or system is not working or working abnormally.

LEDs	Status	Description
ETH	Green	A device is connected to the port, but no activity.
	Blinking Green	Data is being transmitted or received.
	Off	No device is connected to the port.
SFP+/ QSFP+	Green	A device is connected to the corresponding port, but no activity.
	Blinking Green	Data is being transmitted or received.
	Off	No device is connected to the corresponding port.

Back Panels

T5850-48S6Q

Grounding Point

Four Fans   Dual Power
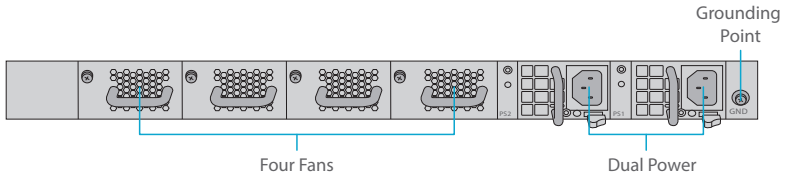
Site Environment

- Do not operate it in an area that exceeds an ambient temperature of 45°C.

- The installation site should be well ventilated.

- Be sure that the Network Packet Broker is level and stable to avoid any hazardous conditions.

- Do not install the equipment in a dusty environment.

- The installation site must be free from leaking or dripping water, heavy dew, and humidity.
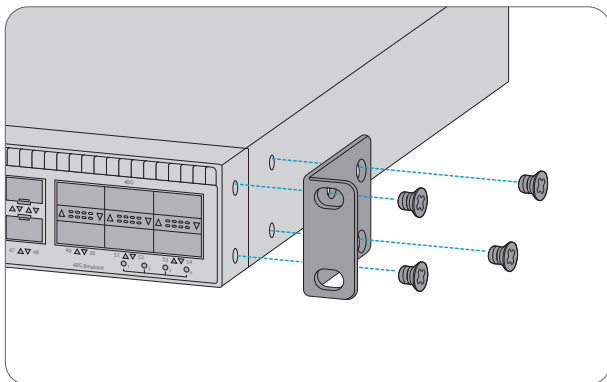
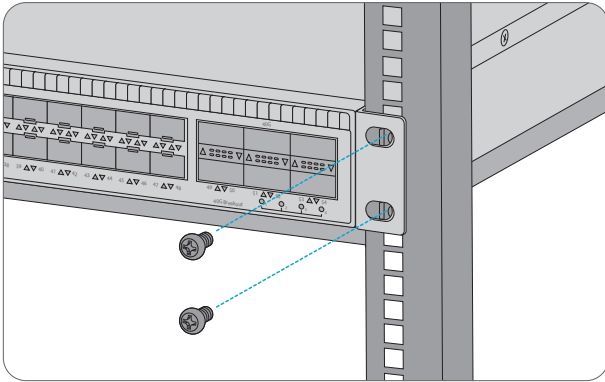# Installing (Based on model T5850-48S6Q)

Desk Mounting
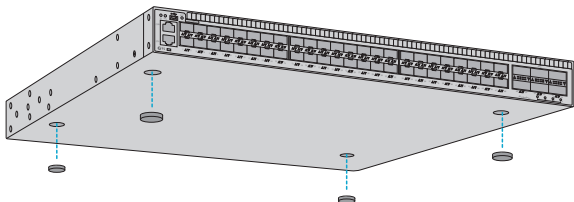
1. Attach four rubber pads to the bottom.
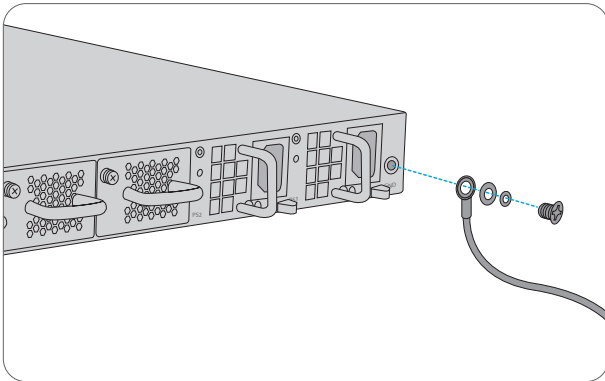2. Place the chassis on a desk.

Rack Mounting

1. Secure the mounting brackets to the two sides of the Network Packet Broker with eight M4 screws.

2. Attach the Network Packet Broker to the rack using four M6 screws and cage nuts.

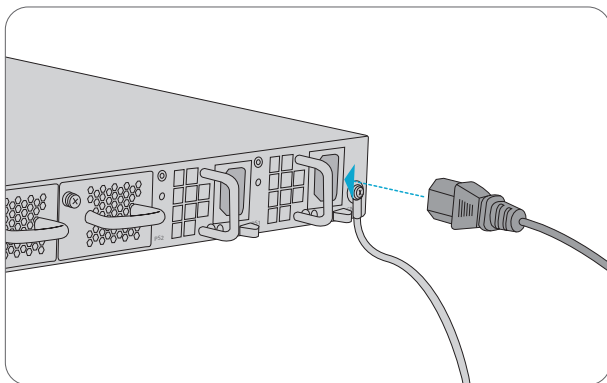## Grounding the Network Packet Broker

1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the Network Packet Broker is mounted.

2. Secure the grounding lug to the grounding point on the Network Packet Broker back panel with the washers and screws.

> ⚠️ **CAUTION:** The earth connection must not be removed unless all supply connections have been disconnected.

Connecting to the Power

1. Plug the AC power cord into the power port on the back of the Network Packet Broker.

2. Connect the other end of the power cord to an AC power source.

> ⚡ **WARNING:** Do not install power cords while the power is on.

Connecting to the SFP+ Ports
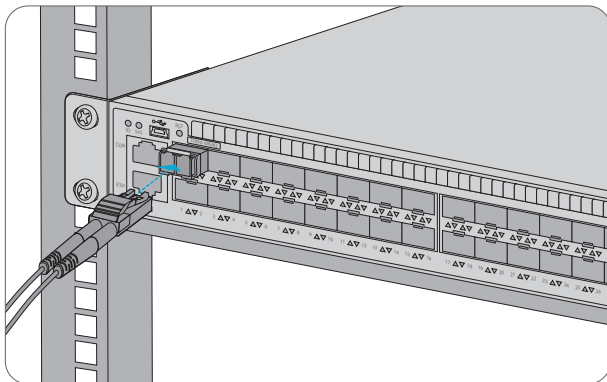
First install the SFP+ transceivers and then connect fiber optic cables to the transceivers, or directly connect DAC cables to the SFP+ ports.

> ⚡ **WARNING:** Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

Connecting to the QSFP+ Ports

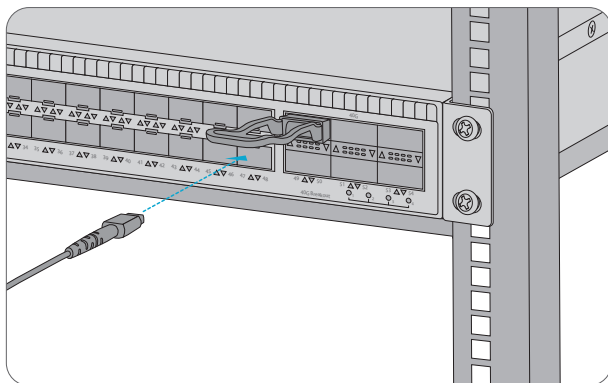First install the QSFP+ transceivers and then connect fiber optic cables to the transceivers, or directly connect DAC cables to the QSFP+ ports.
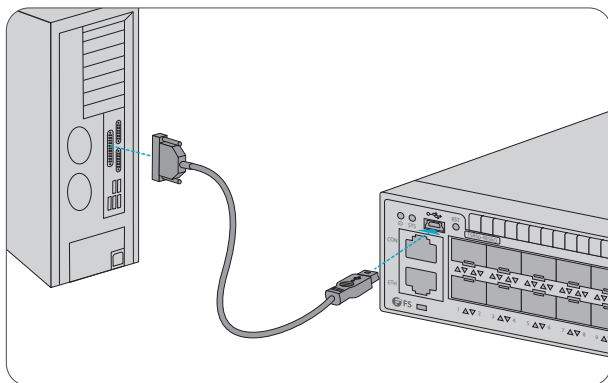
Connecting to the USB Port

1. Connect the DB9 female connector of the mini USB to RS-232 cable to RS-232 serial port on the computer.

2. Insert the mini USB connector into the USB port on the front of the Network Packet Broker.

Connecting to the Console Port
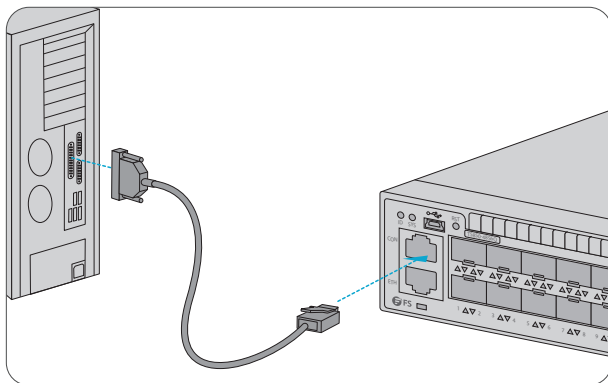
1. Connect the DB9 female connector of the console cable to RS-232 serial port on the computer.

2. Insert the RJ45 connector into the RJ45 console port on the front of the Network Packet Broker.

Connecting to the ETH Port

1. Connect one end of a standard RJ45 Ethernet cable to a computer.

2. Connect the other end of the cable to the ETH port on the front of the Network Packet Broker.

Configuring the Network Packet Broker
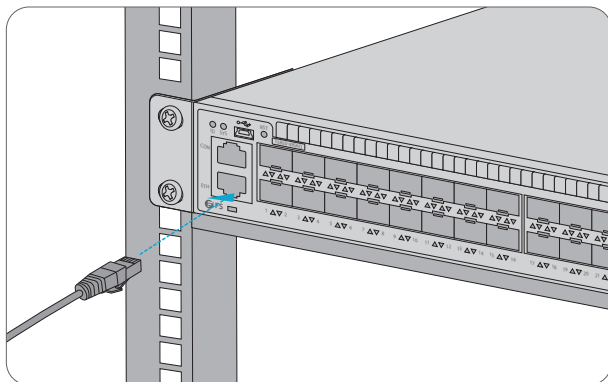
Configuring the Network Packet Broker Using the Web-based Interface

Step 1: Connect your computer to any Ethernet port of the Network Packet Broker using the network cable.

Step 2: Set up the IP configuration on your computer. The IP address of your computer should be set in the same subnet addresses of the Network Packet Broker. The IP address is 192.168.1.x ("x" is any number from 2 to 254).

Step 3: Open a web browser window. Enter the default IP address of the Network Packet Broker http://192.168.1.1 in the address bar and press enter.

Step 4: When the login page appears choose the language that you prefer and enter the username and password.

The default username is **admin**. The default password is **admin**.

Step 5: Click Login to display the web-based configuration page.

Login

Username

Enter username

Password

Enter password

中文　English

➙ Login

Configuring the Network Packet Broker Using the Console Port

Step 1: Connect a computer to the Network Packet Broker's console port using the supplied console cable.

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

Step 3: Configure the terminal simulation with the following parameters:

Model: T5850-48S6Q, T5850-48S2Q4C, T5850-32S2Q, T8050-20Q4C

115200 bits per second

8 data bits

1 stop bit

no flow control

Model: T5800-8TF12S

9600 bits per second

8 data bits

1 stop bit

no flow control

Step 4: Enter the username and password. The default username is **admin**. The default password is **admin**.

You are now ready to configure the Network Packet Broker. Refer to the **Network Packet Broker Reference Guide** online for further information.

Troubleshooting

Loading Failure Processing

1. Check the physical port connections.

2. Check the loading process information displayed on the super terminal.

3. Make sure physical connections are correct and there are no input errors in the loading process.

User Password Lost

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

1. Enter uBoot operation mode.

2. Input boot_flash_nopass command to start system in uBoot mode.

> **CAUTION:** After using boot_flash_nopass command, 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 LED Working Abnormally

1. Check th power cable connections at the Network Packet Broker and the power source.

2. Make sure that all cables are used correctly and comply with the Ethernet specifications.

Hyper Terminal Displaying Abnormally

1. Make sure the power supply is normal and the console cable is properly connected.

2. Check if the console cable is the right type.

3. Check if the control cable driver is properly installed on the computer.

4. Ensure the parameters of the Hyper Terminal are correct.

Online Resources

- Download **https://www.fs.com/download.html**

- Help Center **https://www.fs.com/service/help_center.html**

- Contact Us **https://www.fs.com/contact_us.html**

Product Warranty

FS ensures our customers that any damage or faulty items due to our workmanship, we will offer a free return within 30 Days from the day you receive your goods. This excludes any custom made items or tailored solutions.

Warranty: FS Network Packet Broker enjoys 5 years limited warranty against defect in materials or workmanship. For more details about warranty, please check at https://www.fs.com/policies/warranty.html

Return: If you want to return item(s), information on how to return can be found at https://www.fs.com/policies/day_return_policy.html

Q.C. PASSED