View the Optical Module Status on a Switch

Objective

The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their optical modules to connect fiber-optic cables. Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, the Optical Module Status page of the web-based utility provides the current information for the optical connection, which helps you manage this connection. Also, in case of a failure, you can troubleshoot this connection with the optical module status information.

The following GE SFP (1000 Mbps) transceivers are supported:

- MGBBX1: 1000BASE-BX-20U SFP transceiver, for single-mode fiber, 1310 nm wavelength, supports up to 40 km.
- MGBLH1: 1000BASE-LH SFP transceiver, for single-mode fiber, 1310 nm wavelength, supports up to 40 km.
- MGBLX1: 1000BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, supports up to 10 km.
- MGBSX1:1000BASE-SX SFP transceiver, for multimode fiber, 850 nm wavelength, supports up to 550 m.
- MGBT1: 1000BASE-T SFP transceiver for category 5 copper wire, supports up to 100 m.

The following XG SFP+ (10,000 Mbps) transceivers are supported:

- Cisco SFP-10GSR
- Cisco SFP-10GLRM
- Cisco SFP-10GLR

The following XG passive cables or Twinaxial cabling / Direct Attach Copper (Twinax /DAC) are supported:

- Cisco SFP-H10GCU1m
- Cisco SFP-H10GCU3m
- Cisco SFP-H10GCU5m

This article provides instructions on how to view the Optical Module Status on your switch.
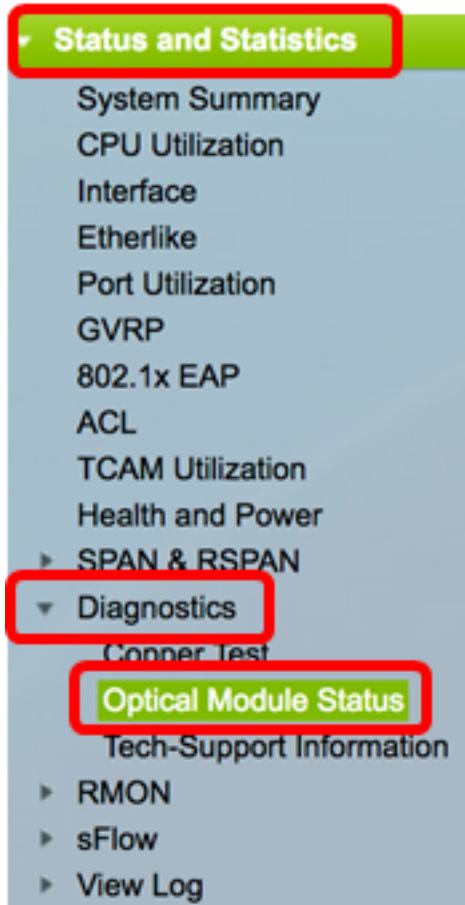
Applicable Devices

- Sx250 Series
- Sx350 Series
- SG350X Series
- Sx550X Series

Software Version

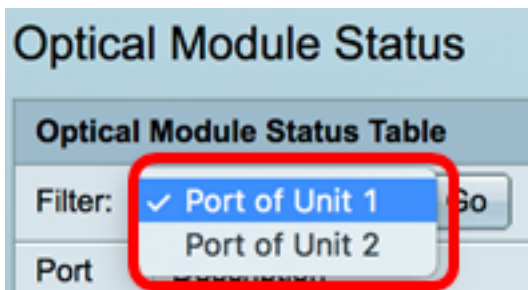# View the Optical Module Status of your Switch

Step 1. Log in to the web-based utility of your switch then choose **Status and Statistics > Diagnostics > Optical Module Status**.

Note: In this example, SG350X-48MP switch is used.

Step 2. Choose a switch from the Filter drop-down list.

Note: This option is not available in Sx250 Series switches.

Note: In this example, Port of Unit 1 is chosen.

Step 3. Click **Go**.

Optical Module Status Table

Filter: Port of Unit 1 ⇕ **Go**

The Optical Module Status Table displays the following information:

Port	Description	Serial Number	PID	VID	Temperature	Voltage	Current	Output Power	Input Power	Transmitter Fault	Loss of Signal	Data Ready
te1/0/1	10GBASE-CU SFP+ Cable 1 Meter, passive	TED1517A2CG	SFP-H10GB-CU1M	V02	0	0.00	0.00	1.00	1.00	No	No	No
te1/0/2	10GBASE-CU SFP+ Cable 1 Meter, passive	TED1548A45L	SFP-H10GB-CU1M	V02	0	0.00	0.00	1.00	1.00	No	No	No

- Port — The port number on which the SFP is connected.
- Description — The description of optical transceiver.
- Serial Number — Serial number of optical transceiver.
- PID — Virtual Local Area Network (VLAN) ID.
- VID — ID of optical transceiver.
- Temperature — The Temperature (in Celsius) at which the SFP is operating.

Port	Description	Serial Number	PID	VID	Temperature
te1/0/1	10GBASE-CU SFP+ Cable 1 Meter, passive	TED1517A2CG	SFP-H10GB-CU1M	V02	0
te1/0/2	10GBASE-CU SFP+ Cable 1 Meter, passive	TED1548A45L	SFP-H10GB-CU1M	V02	0

- Voltage — SFPs operating voltage.
- Current — SFPs current consumption.
- Output Power — Transmitted optical power.
- Input Power — Received optical power.
- Transmitter Fault — Remote SFP reports signal loss. Values are True, False, and No Signal (N/S).
- Loss of Signal — Local SFP reports signal loss. Values are True and False.
- Data Ready — SFP is operational. Values are True and False.

Voltage	Current	Output Power	Input Power	Transmitter Fault	Loss of Signal	Data Ready
0.00	0.00	1.00	1.00	No	No	No
0.00	0.00	1.00	1.00	No	No	No

You should now have viewed the Optical Module Status of your switch.