

Switch Low Optical Power Alarm



Overview

SFP Rx Power Low is a Digital Diagnostic Monitoring (DDMI) warning defined by SFF-8472, triggered when the received optical power falls below the vendor-defined threshold (typically -11 dBm to -15 dBm). Socket Verification Nominal laser wavelength = 1310 nm. This feature, referred to as Digital. This document describes the principles and configurations of the Device Management features, and provides configuration examples of these features. RE: Laser rx power low alarm/ low warning ?

Have you checked the type of physical fibre used?

You need to check on the RX and TX. It is primarily caused by physical layer attenuation—such as dirty connectors, fiber bending, or excessive link loss—rather. A threshold violation error message is displayed when a X2-10GB-LR module is installed on the switch (with or without a fiber cable). An example error message is: There is no workaround. I think the issue is not a IOS's bug because the connection is really flapping between two switches.



Article Content

Jun 05, 2026

Laser rx power low alarm/ low warning ? | Switching

Laser rx power low warning threshold : 0.0263 mW / -15.80 dBm Please some body help me explain what is the meaning of "Laser rx power low alarm ON / low warning ON", and how to solve this

Jul 01, 2025

ALM-3276800007 Indicates that Optical module Rx power is too low

Check whether the receive power of the optical module is within a usable range. If so, run the transceiver diagnosis threshold rx-power command to change the receive power lower threshold

Oct 13, 2025

Solved: SFP Low Signal Levels?

If you have a power meter and light source, you could test the fiber link's attenuation (loss). It will help you determine if it is a problem with the fiber link or a transceiver module issue.

Apr 19, 2026

alarm (optics-options) | Junos OS | Juniper Networks

Specify the action to take if the receiving optics signal is below the optics low-light alarm threshold. Starting in Junos OS Release 15.1, for all QSFP-based interfaces, you need not explicitly configure

Sep 17, 2025

SFP issue: Rx power low alarm;

It seems to be a intermittent issue, as the output from the show command indicates the received power level is -14.2 dBm. For some reason the power level drops below the threshold value.

Apr 16, 2026

how to off about Rx power low alarm?

I know that how to turn off the command Rx power low alarm for 4500 devices. Please give me advice.

Oct 22, 2025

Common Optical Transceiver Failures and Effective Troubleshooting ...

1. Most Common Optical Transceiver Failures 1.1 Optical Power Loss or Link Failure
Symptoms: No link or unstable link Low receive power alarms CRC or FCS errors
Possible Causes:

Apr 07, 2026

Solved: Rx power high warning

Hi, I have an Rx power high warning message in my router. can I leave my router running with this message as it's just a warning or should I install an attenuator because in the long run the

Aug 03, 2025

Rx power low warning (cisco 2960x switch)

Different optics have different operating ranges. I'm honestly more familiar with Ciena optical equipment. With Ciena, once you've set your optical connections and the power levels are

Nov 15, 2025

Optical Transceiver Manufacturer,How to solve the

When the optical power of the optical module is too high or too low, how to diagnose the causes and the corresponding solutions. Taking Huawei switch as an

May 03, 2026

MX10003 diagnostic optic log: RX power low warning|alarm

Sep 28 23:37:34.081 2023 mx10003 fpc0 qsfp-0/1/5 Chan# 0: Rx power low warning cleared So we decide to disable the physical interface until the connectivity issue resolution to avoid the log

Nov 21, 2025

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Nov 07, 2025

SFP Rx Power Low: Causes, Fixes & dBm Thresholds

SFP Rx Power Low is a warning generated when the received optical signal falls below the minimum threshold defined by the SFF-8472 standard. It indicates insufficient optical power

Dec 12, 2025

Optical networks

Nokia optical network solutions for transport networks with advanced coherent optical engines, scalable open optical line systems, and AI-powered automation.

Jul 15, 2025

Low transmit power on SFP

Low transmit power on SFP - what do I do about this? I have a 3750G switch with a 1G SFP module being used as an uplink to another 3750G. This has been in place for some time and working fine.

Oct 01, 2025

Optical Module Common Failure Of Optical Power

1. Transmit optical power When the optical modules at both ends of the link work normally, the transmit optical power is within a certain range, which can be

Feb 07, 2026

Cisco 3850

Hello. I have been having issues with this one interface Gi2/0/4 on L3 Cisco 3850 switch that's been throwing out lots of Rx power low alarm; Operating

Sep 10, 2025

Setting Optical Power Alarm Thresholds

When the transmit or receive power of an optical module exceeds the alarm threshold, an alarm is generated, indicating that the optical module may be faulty. An optical module has default optical

Dec 24, 2025

ONT Optical Parameter

The ONT Optical Parameter feature allows you to configure thresholds of the optical transmit (TX) and receive (RX) parameter of an ONT. When the received and transmitted optical power of the ONT is

Sep 10, 2025

Deciphering SFP receive power low log messages | Switching

We have a virtual chassis composed of a number of EX4200 switches, we are getting entries of this type in the messages logfile: Nov 7 14:48:23 <hostname> : link 13 SFP receive power low alarm set

Sep 29, 2025

Troubleshooting Guide for Cisco NCS 1001, IOS XR Releases 7.x.x,

The RX-POWER-FAIL-LOW alarm is triggered on an OTS-OCH, optics, or OTS controller whenever the optical power of the incoming signal drops below the set RX-low-threshold on the

Feb 14, 2026

alarm low-light-alarm | Junos OS | Juniper Networks

Specify the action to take if the receiving optics signal is below the optics low-light alarm threshold.

Feb 08, 2026

ONT Optical Parameter

Overview of ONT Optical Parameter The ONT Optical Parameter feature allows you to configure thresholds of the optical transmit (TX) and receive (RX) parameter of an ONT. When the received

Apr 08, 2026

Troubleshooting Guide for Cisco NCS 1010, IOS XR Release 7.7.1

Troubleshooting of Data Path Alarms EGRESS-AUTO-POW-RED Default Severity: Not Alarmed (NA), Non-Service-Affecting (NSA) Logical Object: Controller OTS The EGRESS-AUTO

Feb 22, 2026

How to set the alarm/warning thresholds of the

This feature, referred to as Digital Diagnostic Monitoring (DDM) in the command display, provides information on transceiver parameters including temperature,

Dec 27, 2025

Optical SFP monitoring and light level warnings : r/networking

Each supported analog to digital conversion value has a high alarm, low alarm, high warning, and low warning threshold. These values are configured by the transceiver manufacturer and allow the user

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.regen-power.co.za>

Email: info@regen-power.co.za

Phone: +49 176 845 2036

Address: Taunusanlage 15, 60325 Frankfurt am Main, Germany

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