

# Optical module DDM not recognized



## Overview

Learn how to read SFP DDM diagnostics to troubleshoot fiber optic link issues. Temperature, voltage, TX power, and RX power thresholds explained. Digital Diagnostics Monitoring (DDM), also known as Digital Optical Monitoring (DOM) or Diagnostic Monitoring Interface (DMI), is a standardized feature defined by SFF-8472 that allows network devices to monitor real-time optical transceiver parameters such as temperature, voltage, transmit power. Digital Diagnostic Monitoring (DDM), also known as Digital Optical Monitoring (DOM), is a key feature in modern optical transceivers. It allows real-time monitoring of important operational parameters, helping maintain network performance, detect faults early, and simplify troubleshooting. Below. Continuous error logs stating "DDM I2C error reading channel monitoring values" for PORTGROUP="n" are observed on the F5OS platform.

## Article Content

SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver

What Is SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver Module? SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver Module CISCO, HUAWEI,

How to View the DDM Information of Optical Transceivers?

Note the port number or interface identifier for reference. Retrieve DDM Data: Once you have identified the transceiver, navigate to the relevant section or module within the management interface to

Digital Diagnostic Monitoring (DDM) in Optical Modules:

Digital Diagnostic Monitoring (DDM), also known as Digital Optical Monitoring (DOM), is a key feature in modern optical transceivers. It allows real

Why Checking DOM/DDM First Can Save Days of Unnecessary SFP ...

What Is DOM/DDM in Optical Modules? DOM (Digital Optical Monitoring), also called DDM (Digital Diagnostic Monitoring), is a built-in monitoring feature available in many modern SFP

Understanding the Digital Diagnostic Monitoring (DDM)

Details the Digital Diagnostic Monitoring (DDM) technology in optical modules, focusing on its real-time monitoring of key parameters like temperature, voltage,

Using DDM/DOM Readings to Diagnose Optical

Engineer-friendly guide to using DDM/DOM readings to diagnose optical transceiver issues. Understand TX/RX power, bias current, voltage, temperature, failure

How to Trouble Shoot Optical Transceiver?

Additionally, the switch can recognize the module normally but there is always a link down, you can check the TX and RX power of the transceiver by reading the

Complete Guide to Pluggable Optical Transceivers -

Complete Guide to Pluggable Optical Transceivers Fundamentals & Core Concepts  
What are Pluggable Optical Transceivers? Pluggable optical

What Is Digital Diagnostic Monitoring? A Complete

Initial Published: April 29, 2017 Digital Diagnostic Monitoring, also known as DDM, is sometimes referred to as Digital Optical Monitoring (DOM). It

What are the DDM,DOM,and RGD function of the optical

What is DOM? DOM means Digital Optical Monitoring. Its function is similar to DDM, allows you to monitor all aspects data of optical module in real time. Such as

How to view the optical module DDM information?

DDM (Digital Diagnostics Monitoring) is a feature that is included in optical modules, such as SFP, SFP+, QSFP, and QSFP+ transceivers. DDM provides detailed information about the optical

SFP Module Troubleshooting: DDM Data and Common Issues

Learn how to read SFP DDM diagnostics to troubleshoot fiber optic link issues. Temperature, voltage, TX power, and RX power thresholds explained.

The Role of DDM in Optical Module

The optical transceiver module with DDM function not only has the characteristics of miniaturization, modularization and low cost of the traditional optical transceiver module, but also has

Digital Diagnostic Monitoring (DDM) Function Of Optical

DDM, short for Digital Diagnostic Monitoring, literally refers to the function of diagnosing the working status of optical modules, functioning like a

DDMI vs DDM: Understanding Interfaces vs. Diagnostics

Explore the difference between DDMI (interface) and DDM (diagnostics) in optical transceivers. Learn how each supports real-time

Troubleshooting Common SFP Module Issues

The corresponding troubleshooting and solutions are as follows: Fiber connector is not properly connected to the SFP module interface. This can be detected by

Digital Diagnostic Monitoring (DDM) in Optical Modules:

Troubleshoot optical transceivers efficiently with Digital Diagnostic Monitoring. Monitor real-time data to detect faults early and maintain network

Digital Diagnostic Monitoring (DDM/DOM): Architecture & Predictive ...

The introduction of Digital Diagnostic Monitoring (DDM), often referred to as Digital Optical Monitoring (DOM), fundamentally transformed this paradigm, converting the passive

Understanding the Digital Diagnostic Monitoring (DDM)

As the core component for data transmission, the performance of optical modules directly affects network efficiency. Digital Diagnostic Monitoring (DDM) technology

What is DDM/DOM? Optical Module Monitoring & Troubleshooting 2026

Master DDM/DOM in optical modules. Learn how to monitor Tx/Rx power, temperature, and predict failures in enterprise, data center, and 800G AI networks.

Bug ID 609325

DDM is not reporting information for the following optics: Unsupported DDM 1Gb-10GB SFP modules: OPT-0004 OPT-0007 OPT-0011 OPT-0015 OPT-0051 OPT-0033 Conditions Upon

Troubleshooting "DDM I2C error reading channel monitoring values"

Configuration Checks Ensure all interfaces in portgroup are enabled, even if not used. Verify portgroup mode and optic compatibility (e.g., 40G optic in 40G mode). Optic Compatibility

Digital Diagnostics Monitoring

With the information returned by the DDM-capable optics module, any optical problem affecting a port can be quickly identified or eliminated as the potential problem source.

How to Verify Optical Transceiver Firmware and Ensure Compatibility ...

Learn how to check optical transceiver firmware, verify compatibility, and prevent network downtime. A step-by-step guide covering vendor checks, firmware updates, DDM validation, and testing best

How to Understand DDM/DOM Function of SFP

SFP DOM's function DOM gives you the ability to monitor the transmit and receive power of the optical transceiver module, its temperature and supply voltage. Each

Digital Diagnostics Monitoring DDM

For the Digital Diagnostic Monitoring (DDM) capability available on F5 ® platforms, you can use the industry-standard System Management Network Protocol (SNMP) protocol to read information

## Contact Us

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