

View optical module DDM



Article Overview

DDM (Digital Diagnostics Monitoring) allows real-time monitoring of optical module parameters such as temperature, voltage, transmit/receive power, and laser bias current, accessible via CLI, SNMP, or vendor-specific tools.

Understanding DDM

DDM, also known as Digital Optical Monitoring (DOM), is a standardized feature defined by SFF-8472 that enables network devices to monitor the operational status of optical transceivers, including SFP, SFP+, QSFP, and QSFP+ modules. It provides real-time data on key parameters such as temperature, supply voltage, optical transmit power, optical receive power, and laser bias current, helping network administrators detect degradation or potential failures early. DDM data is typically accessed via the module's I2C interface and is interoperable across vendors.

Viewing DDM via Command-Line Interface (CLI)

For network devices like Huawei switches, you can use CLI commands to access DDM information:

- Display basic transceiver information: `display transceiver [interface-type interface-number | slot slot-id]` This shows general module details.
- View diagnostic DDM information: `display transceiver diagnosis interface [interface-type interface-number]` This command provides real-time DDM parameters, including...

Article Content

Nov 15, 2025

What Is Digital Diagnostic Monitoring? A Complete Guide to SFP DDM

We have previously published a dedicated article on this topic, which you can refer to here. For example, when

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Digital diagnostic monitoring (DDM) function of Optical module

3. Fault location: through comprehensive analysis of alarm signs or alarm conditions, monitoring parameter information

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Using DDM/DOM Readings to Diagnose Optical Transceiver Issues

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

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DDM Digital Diagnostic Monitoring

DDM also serves to verify the module's compatibility. How to do DDM Digital Diagnostic Monitoring ? Modern optical transceivers

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Digital Diagnostics Monitoring DDM

You can use the Traffic Management Shell (tmsh) to view Digital Diagnostics Monitoring (DDM) information about optical transceiver

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Understanding the Importance of DDM/DOM in Optical Transceivers

Discover the significance of DDM/DOM technology in optical transceivers. Understand its functionality, operational

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Teach you to read the DDM information of the optical module on the ...

Next, we will introduce the query instructions of relevant parameters of optical module, and view the DDM information

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

Learn how DDM/DOM technology enables real-time optical transceiver monitoring, fault isolation, and predictive

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SFP Optical Module DDM Digital Diagnostics Monitoring Complete

Complete guide to SFP/SFP+/QSFP optical module DDM functionality. Temperature, voltage, bias current, TX/RX

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Optical Module Common Failure Of Optical Power Abnormality

Digital Diagnostic Monitoring (DDM) Function Of Optical Modules enables real-time monitoring of module operation

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Overview of the BIG-IP Digital Diagnostic Monitoring feature

For information about DDM on the F5 VELOS and rSeries systems, refer to K29709501: Overview of the F5 VELOS

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Digital Diagnostic Monitoring (DDM) in Optical Modules: Complete FAQ

Digital Diagnostic Monitoring (DDM), also known as Digital Optical Monitoring (DOM), is a key feature in modern

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What Is DDM/DOM in Optical Transceivers and Why It Matters

Understand what DDM/DOM means in optical transceivers, how it monitors temperature, voltage, and optical power, and why it's

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How to view the optical module DDM information?

DDM provides detailed information about the optical module's performance and status, allowing network administrators to

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DDM in optical modules

Among commonly used optical modules today, the only one without DDM information is the electrical port module. DDM technology

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DDMI vs DDM: Understanding Interfaces vs. Diagnostics in Optical

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

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How to View the DDM Information of Optical Transceiver via SNMP?

Modern optical transceivers support standard Digital Diagnostics Monitoring (DDM) functions, which enable real-time

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

What is DOM? DOM means Digital Optical Monitoring. Its function is similar to DDM, allows you to monitor all aspects data of optical

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You can use the TMOS Shell (tmsh) to view Digital Diagnostics Monitoring (DDM) information about optical transceiver

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How to Understand DDM/DOM Function of SFP Transceiver

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

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Digital Diagnostics Monitoring (DDM) | BIG-IP Documentation

Digital Diagnostics Monitoring (DDM) is a feature used in optical transceiver modules that enables you to view real-time

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Optical Transceiver Manufacturer,What is DDM/DOM function of optical ...

What is DOM? The DOM is Digital Optical Monitoring. Its function is similar to DDM, it allows you to monitor all aspects of the optical

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What is DDM Function for Fiber Optic Transceiver | Sopto

DDM means “Digital diagnostics monitoring”. It can monitor the parameters of fiber modules like optical output power,

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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

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The Role of DDM in Optical Module

The optical transceiver module with DDM function not only has the characteristics of miniaturization, modularization

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