

What optical module does the H20 use



Overview

H20 1561.01nm CFP2-DCO 100G/200G DWDM C-band Tunable It provides 100/200GBase-DCO throughput up to 80km over single-mode fiber (SMF) via an LC/UPC connecto.

Key Takeaways

The H20 optical module is a CFP2-DCO tunable 100G/200G DWDM transceiver designed for high-speed, long-distance optical communication.Overview

The H20 module is a CFP2-DCO coherent optical transceiver operating at 1561.01nm and supports 100G/200GBase-DCO throughput over single-mode fiber (SMF) up to 80 km using an LC/UPC duplex connector (FS.com) . It is fully tunable across the 50GHz ITU-T grid and supports flex-grid DWDM tuning, making it suitable for dense wavelength-division multiplexing (DWDM) applications.

Key Features

- Tunable Wavelengths: Supports ITU channels CH13-CH60 in the C-band, allowing flexible deployment in DWDM networks .
- Phase Modulation: Soft-selectable among three phase modulation schemes for compatibility with M6500 and M6800 Series OTN platforms .
- Digital Optical Monitoring (DOM): Provides real-time monitoring of operating parameters such as optical power, temperature, and voltage .
- Operating Temperature: Functional between -5°C and 70°C, suitable for various environmental conditions .

- Applications: Ideal for line-side trunk DWDM data center interconnects, metro carrier networks, and regional/long-haul optical links .

Technical Advantages

- High-Speed Transmission: Supports both 100G and 200G data rates, enabling scalable network upgrades.
- Long-Distance Capability: Up to 80 km over SMF without the need for additional amplification in many scenarios.
- Flexibility: Tunable across multiple channels, allowing network operators to optimize wavelength allocation and reduce inventory requirements.
- Standards Compliance: Conforms to ISO9001 quality management standards and supports industry-standard optical interfaces .

Use Cases

The H20 module is commonly deployed in:

- Data Center Interconnects (DCI): High-capacity links between data centers.
- Metro and Regional Networks: Flexible wavelength allocation for dense urban or regional fiber networks.
- Long-Haul DWDM Systems: Coherent transmission over extended distances with high spectral efficiency. In summary, the H20 optical module is a high-performance, tunable DWDM transceiver that combines flexibility, high data rates, and long-distance transmission, making it suitable for modern optical networking and data center applications .

Article Content

H20 1561.01nm CFP2-DCO 100G/200G DWDM C-band Tunable

It provides 100/200GBase-DCO throughput up to 80km over single-mode fiber (SMF) via an LC/UPC connector. It can operate at

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Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

Everything You Need to Know About Optical Modules

What is an Optical Module? Optical modules are electronic devices that convert electrical signals into optical signals for

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

