



HGGenuine

HGGenuine is committed to providing faster and more stable connections for AI computing power

HGGenuine provides leading optical connectivity solutions for rapidly growing AI applications. Including data center, artificial intelligence, 5G wireless infrastructure, data network, autonomous vehicle. We have been exploring the field of optical connectivity for 23 years, and we are able to achieve lower latency, lower power consumption, and higher bandwidth for network data transmission.

800ZR/800ZR+ Pro QSFP-DD&OSFP Coherent Modules

The HGGenuine 800G QSFP-DD ZR/ZR+ Pro transceiver is a high performance, high output power, cost effective pluggable DCO module compatible with various switches and routers for optical data communication applications. The module is designed with 5nm high performance and ultra low power consumption DSP. With inside integrated amplifier, the module can support up to +4dBm output power and can reach up to 120KM P2P transmission without external EDFA device.



Key Features:

- Support QSFP-DD type 2B and OSFP type 2 package
- Very low power consumption <27W typical
- Support -10~+1dBm adjustable for DWDM and +4dBm for P2P application
- Support C-band tunable 150GHz Grid spacing
- Support 800ZR 120KM and 800ZR+ up to 480KM over SMF
- Operating case temperature: 0°C to 75°C
- Support 1x800GE/2x400GE/4x200GE/8x100GE interface
- Edge DCI and IP over Metro DWDM application



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MTRO-D5F6CL 800G 2xDR4 OSFP Linear Transceiver 500m

MTRO-D5F6CL is a cost-effective module with high performance, which is optimized for AI Datacenter, supporting data-rate of 8x112Gb/s PAM4 Optical interface and 8x112Gb/s PAM4 Electrical interface. Its transmission distance is up to 500m on single mode fibers. It replaces a retimed DSP data path with a linear data path, thus realizing lower power consumption and latency.

The MTRO-D5F6CL can linearly convert 8x112Gb/s electrical data to 8x112Gb/s optical signals. Similarly, it linearly converts 8x112Gb/s optical signals to 8x112Gb/s output electrical data on the receiver side. It has been designed to withstand the maximum range of external operating conditions including temperature, humidity and EMI. The module offers very high functionality and feature integration, accessible via a two-wire serial interface. The transmitter driver AGC can be enabled or disabled, to increase dynamic range.



Key Features:

- Elimination of oDSP
- 8x112Gb/s PAM4 electrical interface
- OSFP MSA package with 2*MPO-12
- Up to 500m transmission on single mode fiber
- Silicon photonics-based transmitter with 1310nm DFB lasers and PIN receiver
- Single 3.3V power supply
- Electrically hot-pluggable
- Driver AGC
- Analog Diagnostics
- Power consumption < 8W
- Case temperature range of 0 to 70°C
- Up to 1MHz IIC rate

ECOC Booth#:C77

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