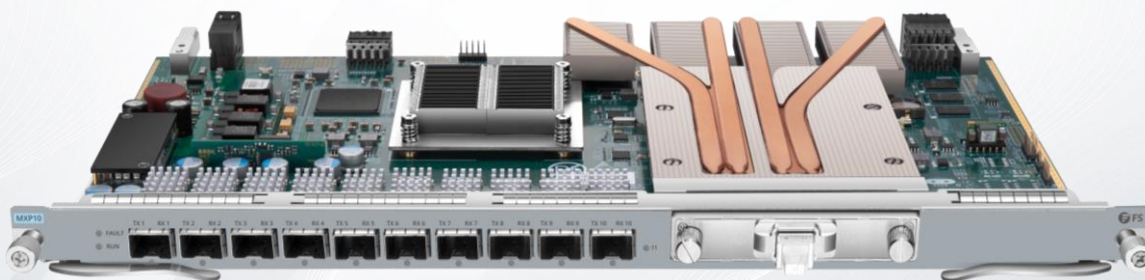


100G OTN Muxponder with 100G Coherent CFP Transceiver

Up to 100G Rate, SFP+ to CFP, Pluggable Module



Description

100G multirate muxponder provides a high transport capacity of 100G over a single wavelength, and it can multiplex 10x 10G signals to a single 100G uplink for metro, long haul, and DWDM applications. The device adopts the advanced technology and ASIC chip, which is fully compliant with ITU-T standard, such as G.709, G.798, etc.

The 100G OTN Muxponder utilizes state-of-the-art technology in the attached coherent CFP optical module. This coherent CFP module is used on the line side to provide a polarization-multiplexed quadrature phase-shift keying (PM-QPSK) modulated 100G signal on a single channel. The coherent CFP optical module is included in the muxponder.

Features

- Support 10x 10G multi-protocol clients
- Up to 100G uplink aggregation
- Attached PM-QPSK modulation coherent CFP optic module provides superior optical performance
- Coherent detection removes the need for dispersion compensation
- Highly integrated in M6500 series managed chassis

Applications

- Metro/Regional transport into/from OTN transport network
- 100G capacity addition to bolster existing OTN/DWDM infrastructure
- High capacity DCI for enterprise, campus and cloud computing networks

Technical Specifications

Line Interface

| Parameter | Description |
|----------------------------------|--|
| Line Interface Type | 1x 100G CFP Port |
| Line Interface Protocol | Coherent CFP |
| Line Modulation | PM-QPSK |
| Transmit Rate | 111.8~125.75Gbps |
| Power Consumption | Max. 130W |
| OSNR Sensitivity | 13.5dB |
| Wavelength Range of Input Signal | 1528~1568nm |
| Channel Spacing | 50GHz&100Ghz |
| Dispersion Tolerance | 40000ps/nm |
| FEC Support | <ul style="list-style-type: none"> • 100G OTU4: G.709 Regular FEC • 100G coherent OCh: Soft-Decision FEC |

Client Interface

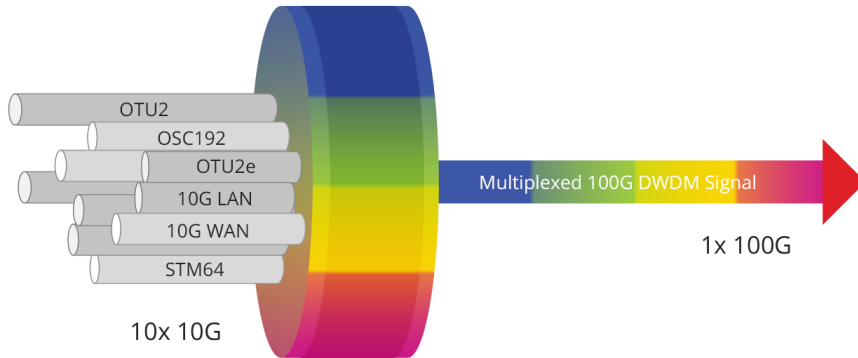
| Parameter | Description |
|----------------------------|---|
| Client Interface Type | 10x 10G SFP+ Ports |
| Client Interface Protocols | 10GE LAN/WAN, STM-64/OC-192, OTU2, OTU2e |
| FEC Support | <ul style="list-style-type: none"> • Regular FEC (G.709) • I.4 Super FEC (G.975.1) • I.7 Super FEC (G.975.1) |

Compliance

| Parameter | Description |
|-----------------------|-------------|
| Quality Certification | CE |

Functional Diagram

The muxponder provides efficient multi-protocol muxponding of 10G services onto a 100G OTU4 uplink for metro, long haul, and DWDM applications.



Matching Chassis

M6500-MXP10 100G muxponder pluggable module occupies one slot in M6500 series managed chassis.



Ordering Information

| ID | Description |
|------------------------|--|
| #96375 | 1x 100G QSFP28 or 2x 40G QSFP+ to 1x 100G CFP Transponder/Muxponder with 100G Coherent CFP Transceiver |
| #96372 | 1x 100G QSFP28 or 2x 40G QSFP+ to 1x 100G CFP Transponder/Muxponder |
| #96376 | 10x 10G SFP+ to 100G CFP 100G Multirate Muxponder with 100G Coherent CFP Transceiver |
| #96373 | 10x 10G SFP+ to 100G CFP 100G Multirate Muxponder |
| #96454 | M6500 Managed Chassis Unloaded, Supports up to 2x 100G Transponder/Muxponder |

Note: Standard products are listed above. Customized specifications are available upon request.



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