100G/200G CFP Muxponder

DCI BOX

Specification

The 100G/200G CFP muxponder is a 12-channel 10G or 24-channel 10G Ethernet signal trigger aggregation to meet the broadband optical transmission and data center links. It follows the G.709 protocol multiplexing mapping and framing processing. After the 100G/200G coherent optical module completes the photoelectric conversion to the C-band coherent signal, to realize the input and output of the coherent signal. Provide high-quality solutions for transmissions such as insufficient margins of the existing systems and long optical cable transmission distances.

Functions and features

- 100G CFP muxponder supports up to 12 channels of 10G Ethernet client side and 1+1 protection, line side 1 channel 100G coherent module access.
- 200G CFP muxponder supports up to 24 channels of 10G Ethernet client side and 1+1 protection, line side 1 channel 200G coherent module access.
- Support OTN services such as OTU1, OTU2e, OTU3, OTU4, etc.
- Support OTN package, mapping and overhead defined by G.709.
- The 100G/200G line side interface adopts polarization multiplexing and QPSK/QAM modulation to reduce the transmission baud rate and reduce the complexity of 100G/200G transmission components. Coherent DSP adopts high-performance HD-FEC, SD-FEC soft decision first-generation and second-generation error correction technologies.
- Provide the tunable wavelength function, and the wavelength modulation can be realized through the tunable CFP module, which can be set within the 96 wavelength range of the H-band 50GHz interval. Facilitate service opening and realize flexible wavelength allocation.

Parameters

System Parameter	Technical Index
Maximum capacity	24 * 10G unidirectional & bidirectional transmission
Wavelength (frequency) range	DWDM: 1529.16nm-1567.14nm(191.3THz-196.05THz)
Modulation	DP-QPSK@100G, DP-16QAM@200G, DP-16QAMps@200G, DP-QPSK@200G.
Dispersion tolerance	±40000ps/nm@100G
OSNR tolerance	<12dB@100G QPSK, <21dB@200G DP-16QAM, <16dB@200G DP-16QAMps, <13.5dB@200G DP-QPSK.
Service access types	OTN: ODU2, ODU2e Ethernet: 10GbE SONET: OC-192 SDH: STM-64 FC port/FICON: 8G/10G/16G
Dimensions (mm)	367(W)*40(H)*200(D)
Working temperature	-10℃ ~ 70℃
Storage temperature	-40℃ ~ 80℃
Relative humidity	5% ~ 95% no condensation
Safety and EMC	Compliance with FCC, UL, CE, TUV, CSA standards.
Power consumption	<85W
Weight	2KG