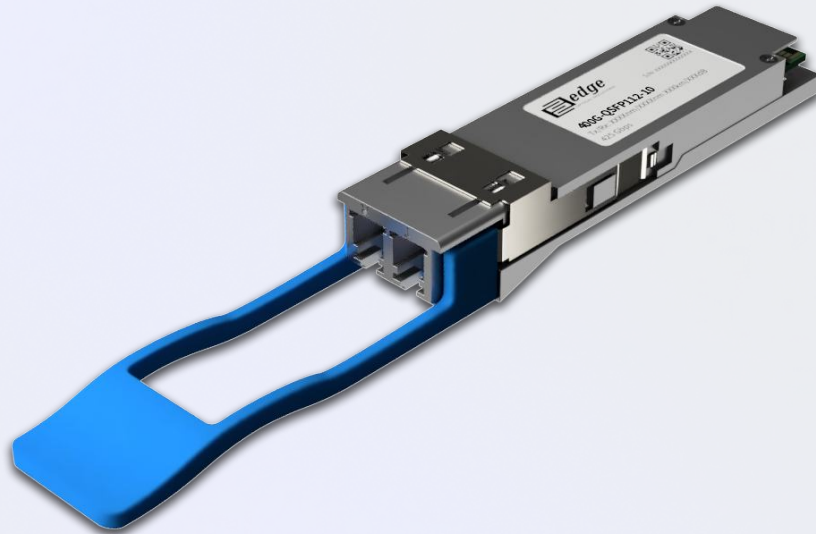


400G-QSFP112-10

Optical Transceivers



Product description

400G-QSFP112-10 is a 400GBASE-LR4 Multi-Vendor MSA Compatible QSFP112 (Quad Small Form-Factor Pluggable 112Gbps per lane) Transceiver designed for operation over Double Fiber Single-Mode Fiber (SMF) optical cable. On the transmission side module converts 4x 100G PAM4 (Pulse-Amplitude Modulation) electrical input channels (each 106.25Gbps) into 4 Single Lambda 100G PAM4 CWDM optical signals. Reversely the opposite is done on the receiving side, module converts 4 Single Lambda 100G PAM4 CWDM optical signals into 4x 100G electrical inputs. Module has minimum guaranteed optical budget of 6.3 dB, which in most cases is enough to reach 10 km distance over OS2 single-mode fiber. 400G-QSFP112-10 uses top quality Quad channel EML driver and EML lasers together with an optical multiplexer (CWDM lines:1271, 1291, 1311, 1331) transmitter and 400Gb/s PIN photodiode array receiver. 400GBASE-LR4 supports DDM/DOM optical diagnostics and operates in Standard 0°-70°C temperature range and has Double LC interface. 400G-QSFP112-10 transceiver is CE/RoHS certified and is compliant to 100G Lambda MSA 400G-LR4, QSFP112 MSA, IEEE 802.3bs 400 Gbps specification. We will be glad to know your requirements!

Product Specification:

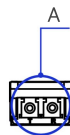
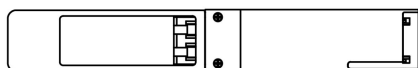
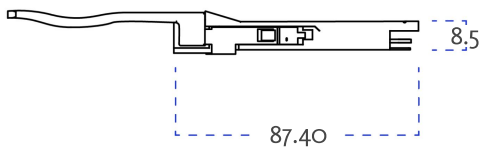
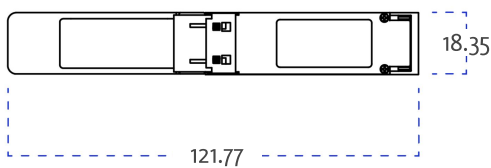
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	1271, 1291, 1311, 1331 nm
RX Wavelength:	1271, 1291, 1311, 1331 nm
Minimum Optical Budget:	6.3 dB
Maximum Distance:	10 km
Supported Data Rate:	425 Gbps

Product Specification:

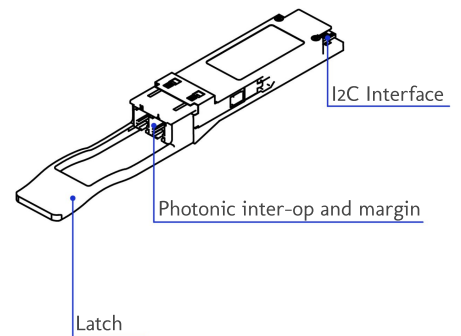
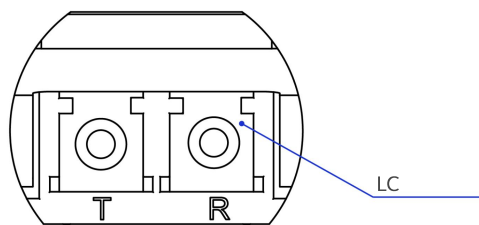
Supported Applications:	400G Ethernet
DDM/DOM:	Supported
Forward Error Correction (FEC):	Host FEC Supported
Transmitter Type:	EML Laser
Tx Wavelength Bandwidth:	4 CWDM Lanes (73 nm 1264.50 – 1337.50nm) (L0 Tx center 1271nm, L1 Tx center 1291nm, L2 Tx center 1311nm, L3 Tx center 1331nm)
Average Launch Power (Min) Each Lane:	-2.7 dBm
Average Launch Power (Max) Each Lane:	5.1 dBm
Extinction Ratio (Min):	3.5 dB
Receiver Type:	PIN photodiode
Rx Wavelength Bandwidth:	4 CWDM Lanes (73 nm 1264.50 – 1337.50nm) (L0 Tx center 1271nm, L1 Tx center 1291nm, L2 Tx center 1311nm, L3 Tx center 1331nm)
Avg Receiver Sensitivity(Min)Each Lane:	-9 dBm
Avg Receiver Sensitivity(Max)Each Lane:	5.1 dBm
Receiver Overload:	6.1 dBm
Temperature Range:	Standard 0°-70°C
Storage Temperature:	-40° to 85°C
Relative Humidity:	0 to 85%
Power Consumption:	≤ 12W
Power:	3.3V
Compliance:	100G Lambda MSA 400G-FR4 Specification compliant, QSFP112 MSA V2.0, CMIS 5.0, RoHS-6, CE

Mechanical Dimensions

*The dimensions are given in millimetres [mm]



A (5:1)



Warranty

EDGE Optic's provides a limited warranty for **sixty (60) months** from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.



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