

10G Series

10 Gbps Optical Transceiver Module

Description:

The OPTOKON transceivers are compliant with IEEE 802.3ae and the 10G MSA (Multi-Source Agreement). This upgrade, and reliability benefits by virtue of being hot-pluggable, also it designed for singlemode and multimode fiber with cost effective and high performance.



Features:

- 10 Gbps Serial Optical Interface
- Transceiver unit with independent
 - 850 nm VCSEL laser transmitter
 - 1310 nm DFB laser transmitter
 - C-band ITU channels
 - PIN photodiode receiver
- Meet XFP MSA
- Digital diagnostic monitoring
- Hot-pluggable
- Metal enclosure for lower EMI
- Duplex LC Receptacle
- XFP Mechanical Interface with bail latch for easy removal
- LVTTTL logic level Tx_Disable and Rx_LOS functions
- Qualified to meet the intent of Bellcore reliability practices
- 3.3 V, 5.0 V power supply
- Power consumption less than 2.5 W
- Links of 2 to 40 km with 9/125 μm single mode fiber (SMF)

Application

- 10-Gigabit Fiber Channel
- 10-Gigabit Sonet (OC-192) / SDH (STM-64)
- 10-Gigabit Ethernet

Specifications

XFP	Wavelength (nm)	Fiber Type	Core Size (μm)	Modal Bandwidth (MHz/km)	Cable Distance
M10-V85-XP-SR	850	MMF	62.5	160	26 m
			62.5	200	33 m
			50/125	400	66 m
			50	500	82 m
			50	2000	300
S10-D31-XP-LR	1310	SMF	8.3/9/10	N/A	10 km
S10-D55-XP-ER	1550	SMF	8.3/9/10	N/A	40 km

Power (IEEE Specification)

XFP	TX		RX		Link Power
	Min	Max	Min	Max	
M10-V85-XP-SR	-7.3	1.0	-9.9	-1.0	7.3
S10-D31-XP-LR	-8.2	0.5	-14.4	0.5	9.4
S10-D55-XP-ER	-4.7	4.0	-15.8	-1.0	15.0

Ordering Code for XFP Transceivers:

MM VCSEL laser 850 nm:

M10 - V85 - XP - SR

SM DFB laser

S10 - DXX - XP - XR

DXX - Laser type¹	XR - Distance
D31 1310 nm	LR 2 - 10 km
D55 1550 nm	ER 40 km

1) C-band ITU 100 GHz spaced channels on request

XENPAK:

MM VCSEL laser 850 nm:

M10 - V85 - XE - SR

SM DFB laser

S10 - DXX - XE - XR

DXX - Laser type	XR - Distance
D31 1310 nm	LR 2 - 10 km
D55 1550 nm	ER 40 km



X2:

MM VCSEL laser 850 nm:

M10 - V85 - X2 - SR

SM DFB laser

S10 - DXX - X2 - XR

DXX - Laser type	XR - Distance
D31 1310 nm	LR 2 - 10 km
D55 1550 nm	ER 40 km

