



Key Highlights:

- Type: SFP+
- Tx Wavelength: Ch. 27 to Ch. 61 (1270nm 1610nm)
- **Rx Wavelength:** G.694.2 CWDM Grid (1270-1610nm)
- Media Type: Single- Mode Fiber
- Fiber Type: Single-Mode Fiber (SMF)
- Optical Budget: 9 dB
- Max. Distance: 10 km
- Data Rate: 1.228-10.138 Gbps
- Temperature: Standard 0°-70°C

Optical Transceiver : CWDM-10GFH-SFP-10-XX

Product Description:

CWDM-10GFH-SFP-10-XX is Multi-Vendor MSA Compatible SFP+ (Small Form factor Pluggable) Transceiver, operating over Double Fiber CWDM Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 9 dB, with in most cases is enough to reach about 10 km distance. However, distance is just indicative parameter calculated for comfort of identification. Eventually we calculate distance taking in account minimal optical budget and average attenuation of optical cabling in industry. This transceiver use top quality DFB Laser transmitter with operating at nominal wavelength Ch. 27 – Ch. 61 (1270nm – 1610nm) PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. CWDM-10GFH-SFP-10-XX operates in Standard 0°-70°C temperature range and has Double LC interface. SFP+ support 1.228-10.138 Gbps data rate and such applications as CPRI option 2 (1228.8 Mbps)|CPRI option 3 (2.458 Gbps)|CPRI option 5 (4.915 Gbps)|CPRI option 6 (6.144 Gbps)|CPRI option 7 (9.830 Gbps)|CPRI option 8 (10.138 Gbps)|OBSAI RP3 x 2 (1.536 Gbps)|OBSAI RP3 x 4 (3.072 Gbps)|OBSAI RP3 x 8 (6.144 Gbps).



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CWDM-10GFH-SFP-10-XX SFP+ Double Fiber CWDM optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are CPRI LTE 4G RRU and BBU Interconnections in C-RAN Frounthaul, OBSAI LTE 4G RRU and BBU Interconnections in C-RAN Frounthaul, and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. CWDM-10GFH-SFP-10-XX SFP+ Transceiver is fully compliant to SFP+ Multi Source Agreement SFF-8431. Consequently, it means that module is compatible with 80% of networking equipment, where is not implemented a special algorithm for protection against third party modules. However – we can provide SFP+ transceiver with custom-encoded firmware in order to make it work almost in any equipment. Therefore, we will be glad to know what your requirement is. Because our focus is providing top quality service, we are performing serious quality checks before delivery of our products. As a result, we do optical parameter measurements, connector cleanness tests and SFP+ transceiver EEPROM memory data validation tests.

General parameter	Value		
Media Type:	Single-Mode Fiber (SMF)		
Connectors:	Double LC		
TX Wavelength:	Ch. 27 to Ch. 61 (1270nm – 1610nm)		
RX Wavelength:	G.694.2 CWDM Grid (1270-1610nm)		
Minimum Optical Budget:	9 dB		
Maximum Distance:	10 km		
Supported Data Rate:	1.228-10.138 Gbps		
Supported Applications:	CPRI option 2 (1228.8 Mbps) CPRI option 3 (2.458 Gbps) CPRI option 5 (4.915 Gbps) CPRI option 6 (6.144 Gbps) CPRI option 7 (9.830 Gbps) CPRI option 8 (10.138 Gbps) OBSAI RP3 2 (1.536 Gbps) OBSAI RP3 x 4 (3.072 Gbps) OBSAI RP3 x 8 (6.14 Gbps)		
DDM/DOM:	Supported		
Temperature Range:	Standard 0°-70°C		
Power Supply Voltage Typical:	+3.3V single power supply		
Compliance:	CE Class 1 FDA and IEC60825-1 Laser Safety Compliant RoHS SFF-8431 S- FP MSA		

Product Specification:









Product Specification:

Transmitter Parameters:	Value			
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Transmitter Type:	DFB Laser			
Tx Wavelength Bandwidth:	20 nm (1260nm-1280nm)			
Minimum Transmitting Power:	-6 dBm			
Maximum Transmitting Power:	1 dBm			

Receiver Parameters:	Value		
Receiver Type:			
	PIN Photodiode		
Rx Wavelength Bandwidth:	G.694.2 grid: 1270-1610 nm		
Receiver Sensitivity:	y: -15 dBm		
Receiver Overload:	0.5 dBm		







Te Product Data Sheet

Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more then 100 vendor brands in data and telecom communications industry:

MS - General MSA AD - ADVA **AE -** Advantech AL - Alcatel (Nokia) **AT -** Allied Telesis **AR -** Arista **AS -** Arris AV - Avaya BC - Barracuda **BR -** Broadcom QL - Cavium (Qlogic) **CR-** Ceragon **CP** - Checkpoint **CH -** Chelsio **CN** - Ciena **CI -** Cisco **LI -** Cisco (Linksys) **CE -** Comnet **CO -** Coriant **DH -** Dahua DC - DCN DL - Dell & Force10 **DK -** D-Link

DZ - DZS(Dasan-Zhone) EI - ECI **EC** - EdgeCore **EW** - EdgeWare **EL -** Eltex EM - EMC2 **EN -** Enterasys **ER -** Ericsson EF - EXFO **EX -** Extreme Networks F5 - F5 Networks FI - Finisar FO - Fortinet FU - Fujitsu H3 - H3C HI - Hirschmann HU - Huawei **IB** - IBM **IF** - Infinera IN - Intel IX - Ixia JU - Juniper Networks **KM -** KeyMile

KY - KyLand LN - Lenovo ML - Mellanox ME - Meraki (Cisco) MT - MikroTik MO - Moxa MR - MRV NC - NEC NG - Netgear NK - Nokia NT - Nortel NS - NSN **OR -** Oracle PA - Palo Alto Network **PL -** Planet QC - QCT(Quanta) **QN -** QNAP RD - RAD RW - RadWare **RC -** Raisecom **RK -** Ruckus **RU -** Ruijie Networks SG - Samsung

SV - Sandvine SC - Silicom SF - SolarFlare SW - Sonicwall **SM -** Supermicro SY - Synology **TC -** Telco Systems TP-TP-LINK **TN** - Trendnet **UN -** Ubiquiti Networks VX - VeEx WG - WatchGuard WS - Waystream WT - Westermo ZT - ZTE ZX - Zvxel HP-HP AG - Avago OC - Oclaro **EU -** Emulex TM - Transmode AU - HP Aruba XX - Other

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.

Ordering Information:

Part Number	Data Rate	Applications	Temperature Range	Available DWDM Chan- nels
CWDM-10GFH-SFP-10-XX*	1.228-10.138 Gbps	Up to 10 km	0°-70°C	27 to 61 G.694.2 CWDM Grid (1270-1610nm)

*XX represents the chosen channel, thus Ch.27 would be CWDM-10GFH-SFP-10-27 (1270nm)



