

OVERVIEW XFP TRANSCEIVERS

Optical transceivers for services between 8.5Gbps and 10Gbps

OVERVIEW

For further technical details, see respective datasheet.

		XFP Transceivers																	
		Grey						CWDM			DWDM			BiDi					
		SO-XFP-SR	SO-XFP-LRM	SO-XFP-LR	SO-XFP-LR20	SO-XFP-LR40	SO-XFP-ER	SO-XFP-ZR	SO-XFP-LR-Cxx	SO-XFP-ER-Cxx	SO-XFP-ZR-Cxx	SO-XFP-ER-Dxxxx	SO-XFP-ZR-Dxxxx	SO-TXFP-ZR-DWDM-A	SO-TXFP-ZR-DWDM-B	SO-XFP-10GE-BX10D-2733/3327	SO-XFP-10GE-BX20D-2733/3327	SO-XFP-10GE-BX40D-2733/3327	SO-XFP-10GE-BX60D-2733/3327
Transm. media	Electrical																		
	Multimode	x	x																
	Singlemode			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Channel count	1	x	x	x	x	x	x	x								x	x	x	x
	8									x	x								
	18								x										
	44											x	x						
	80																		
	96																		
	Tunable 96 ch Tunable 101 ch													x					
Typical reach	220m																		
	300m	x	x																
	10km			x					x							x			
	20km				x												x		
	40km					x	x			x		x						x	
	60km																		x
	80km							x			x		x	x	x				
Protocols	Eth	10GbE-LAN	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		10GbE-WAN	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		GbE FE																	
	OTN	OTU2	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		OTU2e	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		OTU1																	
	SDH/SONET	STM-64/OC-192	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		STM-16/OC-48																	
		STM-4/OC-12																	
	FC	16G FC																	
		10G FC	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		8G FC						x											
		4G FC 1G FC																	
	CPRI	Opt 7 (9.8304 Gbps)						x						x	x				
		Opt 7A (8.11008 Gbps)																	
Opt 8 (10.1376 Gbps)		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
I-temp (-40 to +85°C)				x			x	x											
E-temp (-20 to +85°C)		x																	

DEFINITIONS

Transm. Media:	Type of transmission media. Electrical: Connection is made over LAN cable or coax cable. Multimode: Connection is made over multimode fiber cable. Singlemode: Connection is made over singlemode fiber cable.
Channel count:	Number of services carried. Client to client connections are typically 1 channel. For CWDM and DWDM transceivers the number indicates number of available wavelength versions.
Cable type:	Ribbon-fiber: Optical cable with multiple fibers and MPO (Multi-fiber Push On) connectors. Fiber-pair: One fiber used for transmit and one fiber for receive direction. Single-fiber: One fiber used for both transmit and receive direction. Breakout cable: Special cable to separate individual flows contained in one connector to individual connectors. Can be optical or electrical.
Connector:	Optical transceivers have one or two optical connectors, e.g. LC. Cable solutions have connectors of a transceiver form-factor, e.g. SFP+.
Typical reach:	The nominal bridgeable distance. For optical transceivers the value is without optical path penalties, e.g. chromatic dispersion. For cable solutions where multiple distance options exist, the given distance is the max length.
Protocols:	Protocols supported by the transceiver/cable.
i/f standards:	Indicates if a product complies with an interface standard.
I-temp:	The product is available in a version that supports the Industrial temperature range (-40 to +85°C). The normal temperature range is 0 to +70°C.
E-temp:	The product is available in a version that supports extended temperature range. There is no standard for the supported temperature range. The normal temperature range is 0 to +70°C.
FEC required:	Some protocols require Forward Error Correction to provide transmission with required quality. This is an informative remark since this is stipulated in the respective standards.
DAC:	Direct Attach Cable (coax). Can be active (ACU in item number) or passive (PCU in item number).
AOC:	Active Optical Cable (fiber). AOC in item number.