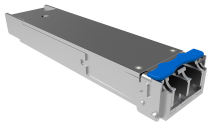

MODULE XFP 10GE UPLINK

FBS
FURUKAWA BROADBAND SYSTEM

Description

The Optical Transceivers Modules are components used in conjuction to the optical PON ports and the Uplink of the Furukawa EPON and GPON OLT plataform, featuring optical ports, acting as a modulators/demodulators in order to perform an optical/electrical conversion in PON networks, thus enabling data transmission over the optical network between the switch and the PON plataform.

General Characteristics

Parameter	Min	Typical	Max
Voltage (Vcc)	3.15	3.3	3.45
Operating Temperature (ºC)	0	25	70
Storage Temperature (ºC)	-40	-	85
Relative Humidity - Operating (%)	0	-	80
Relative Humidity - Storage (%)	0	-	95

Technical Characteristics

Module XFP 10GE SR 850NM (300M) - Part Number: 35510272
LC Conector // Multimode

	Parameter	Min	Typical	Max
Transmission	Transmission Type	850 nm BCSEL		
	Sinalization speed +/- 100 ppm (Gbps)	9.95 to 11.1		
	Average launch power (dBm)	-7.3	-	-1
	Central optical wavelength (nm)	840	850	860
	Spectral line (nm)	-	0.4	0.45
	Dispersion penalty (dB)	-	-	3.9
Reception	**Parameter**	**Min**	**Typical**	**Max**
	Receiver type	850 nm PIN/TIA CW Mode		
	Wavelength (nm)	840	850	860
	Receiver sensitivity (dBm)	-	-14.5	-11.1
	Receiver optical overload (dBm)	-1	-	-
	Receiver reflectance (dBm)	-	-	-12

Module XFP 10GE LR 1310NM (10KM) - Part Number: 35510273
LC Conector //Singlemode

	Parameter	Min	Typical	Max
	Transmission Type	1310 nm DFB Laser		
	Sinalization speed +/- 100 ppm (Gbps)	9.95 to 11.3		
	Average launch power (dBm)	-8.2	-	-0.5
	Central optical wavelength (nm)	1260	-	1355

Transmission	Spectral line (nm)	-	-	1
	Side suppression mode (dB/Hz)	30	-	-
	Extinction ratio (dB)	3.5	-	-

	Parameter	**Min**	**Typical**	**Max**
Reception	Receiver type		PIN/TIA	
	Wavelength (nm)	1260	-	1600
	Receiver Sensitivity (dBm)	-	-	-14.4
	Receiver optical overload (dBm)	0.5	-	-
	Receiver Reflection (dBm)	-	-	-12

Module XFP 10GE ER 1550NM (40KM) - Part Number: 35510274
LC Conector // Singlemode

	Parameter	**Min**	**Typical**	**Max**
Transmission	Transmission Type		1550 nm EML	
	Sinalization speed +/- 100 ppm (Gbps)		9.95 to 11.3	
	Average launch power (dBm)	-1	-	2
	Central optical wavelength (nm)	1530	-	1565
	Spectral line (nm)	-	-	1
	Dispersion penalty (dB)	-	-	2
	Extinction ratio (dB)	8.2	-	-

	Parameter	**Min**	**Typical**	**Max**
Reception	Receiver type		1270~1600 PIN/TIA Receiver	
	Wavelength (nm)	1270	-	1600
	Receiver Sensitivity (dBm)	-	-	-16
	Receiver optical overload (dBm)	-1	-	-
	Receiver Reflection (dBm)	-	-	-27

Security

CAUTION

*** This device emits invisible radiation that can cause irreparable damage to vision. Never look straight to the output with the connected equipment.**
*** Do not test the equipment in optical loop without the use of an appropriate attenuator. The warranty does not cover this kind of damage.**
*** This equipment is sensitive to static electricity.**
*** Contact us for more information about the proper handling of this equipment.**

Part Numbers