

PRE-XSN2SFP10GC-20(I)

SFP+, Combo XGS/GPON, N2/C+, SMF/SC



Product Features:

- Combo XGS and GPON
- DFB GPON Laser Transmitter
- EML XGSPON Laser Transmitter
- APD Receiver
- 1577/1270nm XGS Wavelengths
- 1490/1310nm GPON Wavelengths
- SC/UPC Connector
- DDM/RSSI
- C and I-Temp Available



Product Applications:

- FTTH
- XGS 10G PON
- GPON

Standards:

- ITU-T G.9807.1 Class N2
- ITU-T G.987.2 Class N2a
- ITU-T G.984.2 Class C+
- RoHS

General Specifications

Parameter	Min	Typical	Max	Unit
Case Operating Temperature (C-Temp)	0	-	70	°C
Case Operating Temperature (I-Temp)	-40	-	85	°C
Operating Humidity	5	0	85	%
Power Consumption	-	-	2.6	W
Power Supply Voltage	3.14	3.3	3.46	V
Storage Humidity	5	-	90	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	10	km
Split Ratio	-	32	64	

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XGS Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Center Wavelength	1575	1577.0	1580	nm
Signal Rate	-	9.95328	-	Gbps
Average Tx Power (N2)	4	4.5	7	dBm
Spectral Width	-	-	1.0	nm
Side Mode Suppression Ratio	30	-	-	dB
Extinction Ratio	8.2	-	-	dB

XGS Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Receiver Wavelength	1260	1270	1280	nm
Signal Rate	2.48832	NA	9.95328	Gbps
Receiver Sensitivity(N2) ¹	-28.5	-	-	dBm
Optical Overload (N2)	-	-	-7	dBm
Damage Threshold	-	-	-3	dBm
Signal Detect Assert	-45	-	-30.5	dBm
Signal Detect De-Assert	-45	-	-30.5	dBm
Signal Detect Hysteresis	0	-	7	dB

Note 1: PRBS 2³¹-1, ER>6dB, BER @ 1.0E-3

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GPON Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Center Wavelength	1480	1490	1500	Nm
Signal Rate	-	2.48832	-	Gbps
Average Tx Power (C+)	3	4	7	dBm
Spectral Width	-	-	1.0	Nm
Side Mode Suppression Ratio	30	-	-	dB
Extinction Ratio	8.2	-	-	dB

GPON Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Receiver Wavelength	1290	1310	1330	nm
Signal Rate	NA	1.24415	NA	Gbps
Receiver Sensitivity(C+) ¹	-33	-	-	dBm
Optical Overload	-	-	-8	dBm
Damage Threshold	-	-	-5	dBm
Signal Detect Assert	-45	-	-33.5	dBm
Signal Detect De-Assert	-45	-	-33.5	dBm
Signal Detect Hysteresis	0	-	7	dB

Note 1: PRBS 2²³-1, ER>8.2dB, BER @ 1.0E-4

Product Ordering Information

Part Number	Description
PRE-XSN2SFP10GC-20	SFP+, Combo XGS/GPON, N2/C+, 10G, SMF/SC, C-Temp, DDM
PRE-XSN2SFP10GC-20I	SFP+, Combo XGS/GPON, N2/C+, 10G, SMF/SC, I-Temp, DDM