

OP-XFP-XST-N2

XFP, XGS-PON, N2, SMF/SC, C-Temp



Product Features:

- XGS-PON OLT Transceiver
- 9.953Gbps Symmetric Data Rate
- EML Laser Transmitter
- APD Receiver
- 1577/1270nm XGS Wavelengths
- SC/UPC Connector
- DDM/RSSI
- C-Temp Rated



Product Applications:

- FTTH/FTTP
- 10G XGS-PON

Standards:

- ITU-T G.9807.1 Class N2
- SFF-8077
- RoHS

General Specifications

Parameter	Min	Typical	Max	Unit
Case Operating Temperature	0	-	70	°C
Operating Humidity	5	0	95	%
Power Consumption	-3.1	-	3.5	W
Power Supply Voltage	4	3.3	3.46	V
Storage Humidity	5	-	90	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	20	-	km
Split Ratio	-	64	128	

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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	-	7	dBm
Spectral Width	-	-	1	nm
Side Mode Suppression Ratio	30	-	-	dB
Extinction Ratio	8.2	-	-	dB
Dispersion Penalty	-	-	1	dB
P _{off} Tx Power	-	-	-39	dBm

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 ¹	-	-	-28	dBm
Optical Overload	-	-	-7	dBm
Damage Threshold	-	-	-3	dBm
Dynamic Range	15	-	-	dB
Signal Detect Assert	-45	-	-	dBm
Signal Detect De-Assert	-45	-	-30	dBm
Signal Detect Hysteresis	0.5	-	6	dB

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

Product Ordering Information

Part Number	Description
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