

XG PON Optical Module

NT-XGPON-A



NT-XGPON-A is designed for single mode fiber and operates at wavelength of 1270nm. The transceiver module uses a DFB laser diode and fully compliant with IEC60825 and CDRH class 1 eye safety. It contains APC functions, a temperature compensation circuit to ensure compliance with ITU-T G987.2 requirements at operating temperature. The receiver section uses a hermetic packaged APD-TIA (APD with trans-impedance amplifier) and a limiting amplifier. The APD converts optical power into electrical current and the current is transformed to voltage by the trans-impedance amplifier. The differential DATA and /DATA CML data signals are produced by the limiting amplifier. The APD-TIA is AC coupled to the limiting amplifier through a low pass filter.

Product Features

- ✓ Single Fiber XG-PON ONU Transceiver
- 1270nm burst-mode 2.48832 Gb/s transmitter with DFB laser
- 1577nm continuous-mode 9.95328Gb/s APD/TIA receiver
- ✓ Digital diagnostic monitoring (DDM)with internal calibration
- ✓ SFP+ package with SC APC receptacle connector
- ✓ +3.3V separated power supply , Low power dissipation
- ✓ LVPECL interface logic level for data input
- ✓ CML interface logic level for data output
- ✓ LVTTL for burst signal input
- ✓ LVTTL for receiver loss of signal indication
- ✓ Compliant with ITU-T G.987.2
- ✓ SFP+ MSA SFF-8431 compliant
- ✓ SFF-8472 compliant
- ✓ Telcordia GR-468-CORE and MIL-STD-883 compliant
- ✓ RoHS-6/6 Compliant
- ✓ Operating temperature range: -40°C ~ + 85°C
- ✓ IEC 60825-1 Compliant
- ✓ FCC Part 15 Class B /EN55022 Class B (CISPR 22B)/ VCCI Class B Compliant

Applications

- ✓ 10-Gigabit-capable passive optical networks (XG-PON) ONU

NT-XGSPON-S



NT-XGSPON-S is designed for single mode fiber and operates at wavelength of 1270nm. The transceiver module uses a DFB laser diode and fully compliant with IEC60825 and CDRH class 1 eye safety. It contains APC functions, a temperature compensation circuit to ensure compliance with ITU-T G987.2 requirements at operating temperature. The receiver section uses a hermetic packaged APD-TIA (APD with trans-impedance amplifier) and a limiting amplifier. The APD converts optical power into electrical current and the current is transformed to voltage by the trans-impedance amplifier. The differential DATA and /DATA CML data signals are produced by the limiting amplifier. The APD-TIA is AC coupled to the limiting amplifier through a low pass filter.

Product Features

- ✓ Single Fiber XG-PON ONU Transceiver
- 1270nm burst-mode 2.48832 Gb/s transmitter with DFB laser
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- ✓ Digital diagnostic monitoring (DDM)with internal calibration
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- ✓ LVPECL interface logic level for data input
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Applications

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