

GPON Optical Module

NT-GPON-CLASS-B+



NT-GPON-CLASS-B+ is based on the ITU-T G.984.2 Class B+ specifications for bidirectional communications over a single fiber and incorporates a high performance 1310nm Burst Mode APD/TIA receiver and 1490nm CW mode DFB transmitter with internal optical isolator.

Product Features

- ✓ Single fiber bi-directional data links asymmetric TX 2488Mbps/RX1244Mbps application
- ✓ 1490nm continuous-mode DFB laser transmitter and 1310nm burst-mode APD-TIA receiver
- ✓ Small Form Factor Pluggable package with SC/UPC Connector
- ✓ -40 to 85° C operating temperature
- ✓ Single 3.3V power supply
- ✓ Digital diagnostic monitoring interface
- ✓ Digital burst RSSI function to monitor the received optical power level
- ✓ LVPECL compatible data input/output interface
- ✓ LVTTL transmitter disable control
- ✓ LVTTL transmitter laser fault alarm
- ✓ Fast LVTTL receiver Signal Detect (SD) indication response
- ✓ Low EMI and excellent ESD protection
- ✓ Class I laser safety standard IEC-60825 compliant
- ✓ RoHS6 Compliance

Applications

- ✓ Gigabit Ethernet Passive Optical Networks (GEAPON)

Standards

- ✓ Complies with SFP Multi-Source Agreement (MSA) SFF-8074i
- ✓ Complies with ITU-T G.984.2 Amendment 2
- ✓ Complies with FCC 47 CFR Part 15, Class B
- ✓ Complies with FDA 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
- ✓ Complies with SFF-8472
- ✓ Compatible with TR-NWT-000870 4.1 ESD sensitivity classification Class 2. Compatible with Telcordia GR-468-CORE

NT-GPON-CLASS-C+



NT-GPON-CLASS-C+ is based on the ITU-T G.984.2 Class C+ specifications for bidirectional communications over a single fiber and incorporates a high performance 1310nm Burst Mode APD/TIA receiver and 1490nm CW mode DFB transmitter with internal optical isolator.

Product Features

- ✓ Single fiber bi-directional data links asymmetric TX 2488Mbps/ RX 1244Mbps application
- ✓ 1490nm continuous-mode DFB laser transmitter and 1310nm burst-mode APD-TIA receiver
- ✓ Small Form Factor Pluggable package with SC/UPC Connector
- ✓ 0 to 70° C operating temperature
- ✓ Single 3.3V power supply
- ✓ Digital diagnostic monitoring interface
- ✓ Digital burst RSSI function to monitor the received optical power level
- ✓ LVPECL compatible data input/output interface
- ✓ LVTTL transmitter disable control
- ✓ LVTTL transmitter laser fault alarm
- ✓ Fast LVTTL receiver Signal Detect (SD) indication response
- ✓ Low EMI and excellent ESD protection
- ✓ Class I laser safety standard IEC-60825 compliant
- ✓ RoHS6 Compliance

Applications

- ✓ Gigabit Ethernet Passive Optical Networks (GEAPON)

Standards

- ✓ Complies with SFP Multi-Source Agreement (MSA) INF-8074i
- ✓ Complies with ITU-T G.984.2 Amendment 2
- ✓ Complies with FCC 47 CFR Part 15, Class B
- ✓ Complies with FDA 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
- ✓ Complies with SFF-8472
- ✓ Compatible with TR-NWT-000870 4.1 ESD sensitivity classification Class2.
- ✓ Compatible with Telcordia GR-468-CORE

NT-GPON-CLASS-C++



NT-GPON-CLASS-C++ is based on the ITU-T G.984.2 Class C++ specifications for bidirectional communications over a single fiber and incorporates a high performance 1310nm Burst Mode APD/TIA receiver and 1490nm CW mode DFB transmitter with internal optical isolator.

Product Features

- ✓ Single fiber bi-directional data links asymmetric TX 2488Mbps/RX1244Mbps application
- ✓ 1490nm continuous-mode DFB laser transmitter and 1310nm burst-mode APD-TIA receiver
- ✓ Small Form Factor Pluggable package with SC/UPC Connector
- ✓ 0 to 70° C operating temperature
- ✓ Single 3.3V power supply
- ✓ Digital diagnostic monitoring interface
- ✓ Digital burst RSSI function to monitor the received optical power level
- ✓ LVPECL compatible data input/output interface
- ✓ LVTTL transmitter disable control
- ✓ LVTTL transmitter laser fault alarm
- ✓ Fast LVTTL receiver Signal Detect (SD) indication response
- ✓ Low EMI and excellent ESD protection
- ✓ Class I laser safety standard IEC-60825 compliant
- ✓ RoHS6 Compliance

Applications

- ✓ Gigabit Ethernet Passive Optical Networks (GEPON)

Standards

- ✓ Complies with SFP Multi-Source Agreement (MSA) SFF-8074i
- ✓ Complies with ITU-T G.984.2
- ✓ Complies with FCC 47 CFR Part 15, Class B
- ✓ Complies with FDA 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
- ✓ Complies with SFF-8472
- ✓ Compatible with TR-NWT-000870 4.1 ESD sensitivity classification Class 2.
- ✓ Compatible with Telcordia GR-468-CORE