FTTH Redefined for you!

GX GROUP

PRODUCT DATASHEET



GPON C+ / C++ Fiber SFP

High Performance SFP

Product Description

The SATURN SFP Transceiver is designed for ISP, Telecom segment with focus on high performance and high availability requirements. This industrial grade global standarised technology is suitable for wide operating temperature environments and provide flexibility for any network upgrades.

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 input 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

PRODUCT FEATURES AND SPECIFICATIONS

Fiber SFP - C+ / C++

Standards

- Complies with SFP Multi-Source Agreement (MSA) SFF-8074i
- Complies with ITU-T G.984.2 Amendment 1
- 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

Applications

- Gigabit-capable Passive Optical Networks (GPON)

Regulatory Compliance

Feature	Test	Method
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1(>1000V for SFI pins, >2000V for other pins.)
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2	Class 2(>4.0kV)
Electromagnetic Interference (EMI)	CISPR22 ITE Class B FCC Class B CENELEC EN55022 VCCI Class 1	Comply with standard
Immunity	IEC61000-4-3	Comply with standard
Eye Safety	FDA 21CFR 1040.10 and 1040.11 EN (IEC) 60825-1,2	Compatible with Class I laser Product

PRODUCT DATASHEET

Saturn Fiber SFP product models

Model	Description	Wavelength	Distance	Type	Connecter Type
GSFP-C+	GPON C+ OLT SFP, 20KM	1310/1490nm	20 Km	Industrial	SC/UPC
GSFP-C++	GPON C++ OLT SFP, 20KM	1310/1490nm	20 Km	Industrial	SC/UPC

Equipments design / specification may changes according to the roadmap