

Mini Industrial rail 4GE XPON Specification

Overview

Industrial grade FCX-8001 is one of our latest industrial grade GPON/EPON passive optical network communication terminal series, the product provides 4 GE interfaces, can provide short POE+ power supply, 1 optical fiber access, built-in industrial power supply, IP40 metal shell; The stability and wide compatibility of the product are suitable for high-speed interconnection projects such as smart cities and smart transportation, and can work normally in the harsh environment of high and low temperature difference, which can well meet the application of high-speed data transmission.

Photo



Features

- IP40 protection grade, aluminum alloy anodized case, can withstand the test of harsh environment;
- XONU uses high-performance, low-power chips to support CTCV2.0 interconnection and interworking standards with the help of NGBN ViewNMS, it can provide users with rich services to fully meet the needs of carrier-grade FTTB equipment
- The router mode supports PPPOE, DHCP, and static IP
- Supports port-based rate limiting and bandwidth control
- Conforms to ITU-TG984 standard, transmission distance up to 20KM, can be remotely managed by OLT;
- Supports data encryption, packet broadcasting, port VLAN separation, and dynamic bandwidth allocation (DBA).
- Supports IPv4 and IPv6, ONU automatic discovery, link detection, and software upgrade
- Supports VLAN division and user separation to avoid broadcast storms and power outage alarm, facilitating link fault detection
- Support broadcast anti-storm function, special system fault prevention design, to maintain system stability
- Support SNMP based EMS software online upgrade, easy maintenance;
- Electrical interface (RJ45 interface) 10/100/1000M adaptive, full/half duplex mode, MDI/MDI-X automatic detection.
- **POE (POE+) Output power of each power module is 802.3af/at(15.5w/25.5w) (optional).**
- Power supply supports super lightning protection function: anti-lightning, anti-induction high voltage, anti-surge, etc.; efficient heat dissipation without fan, reducing repair time;
- Dual DC power supply (5.08mm terminal) :
 - can be DC9-70V or AC7-50V wide range power supply, power supply with polarity automatic detection function, no need to distinguish between positive and negative terminals during installation;
 - Internal isolation, redundant dual power input; Anti-reverse connection protection
- Super lightning protection function: anti-lightning, anti-induction high pressure, anti-surge and so on
- Fan-less efficient heat dissipation, reducing repair time;
- Available in DIN 35mm rail mounting or wall-mounted mounting;
- Wide temperature type: working temperature -40°C~ +85°C;
- All models pass 100% oven test, warranty period: 5 years;

Parameters

◆ Fiber PON interface

Upstream and downstream speed:

GPON: Up 1.25Gbps, down 2.5Gbps

EPON: Upstream and downstream symmetrical transmission rate of 1.25Gbps

Standard: ITU-T G.984/ G.988 standard

Split Ratio: 1:128

Maximum transmission distance: 20 km

Wavelength: Tx 1310nm, Rx1490nm

Transmit optical power: 0.5 ~ +5dBm

Receiving sensitivity: -27dBm

Saturation received optical power: -8dBm

Interface type: SC-UPC, 9/125µm single-mode fiber

◆ 10/100/1000M Ethernet interface

Agreement: Compliant with IEEE 802.3ab, IEEE 802.3z

Speed rate: 10/100/1000M adaptive m Full/half duplex adaptive

MAC address table: 4096 MAC addresses can be learned

Physical interface: RJ45 seat supports Auto-MDIX

◆ POE ethernet feature

PoE standard: IEEE 802.3af/at

PoE type: End jumper (also supports middle jumper)

PoE port feature: The port output power is 25.5W

PoE wire core: End crossover method 1/2+, 3/6- wire pair (middle crossover method 4/5+, 7/8- wire pair)

◆ Environmental indicators

Operating temperature: -40 □ - +80 □

Storage temperature: -40 □ - +85 □

Humidity: 0% -95% (non-condensing)

MTBF:> 100,000 hours

Specifications

Product model	FS-XPON-ONT-4GE-POE-IND
Product Function Description	Industrial rail 4-way GE XPON ONU
Service port description	Four Gigabit Ethernet ports, one XPON optical port
power supply	Redundant dual power inputs DC9-70V or AC7-50V, power consumption <5W Overload protection: Support; Reverse protection: Support; Redundancy protection: Supported Access terminal: 4-core 5.08mm pitch insert terminal
Product Size	Case: IP40 protection grade, aluminum alloy material Dimensions: 110mm(L) x 87mm(W) x 40mm(H) Installation method: guide rail installation, wall mounted installation
weight	0.51Kg / PCS

Application

