

PRODUCT DATA SHEET

1GE Ports GPON ONT

Overview

To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT NTFGN-01GSZ for SFU (Single Family Unit) incorporates interoperability, key customers' specific requirements and cost-efficiency.

Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, the NTFGN-01GSZ ONT supports the full Triple Play of services including video, and high speed internet access. Compliant with standard OMCI definition, ONT OnAccess NTFGN-01GSZ is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.

Interface

- 10/100/1000 Base-T interface

Dimensions

- 107x85x26(mm) (W x D x H)

Power Supply

- +12V (feed via external AC/DC adapter)
- 2-PIN power adaptor input
- Dying Gasp support
- Power switch
- Power Consumption: less than 4W

GPON Interface

- Compliant with ITU-T G.984 GPON standards
- SFF type laser, SC/PC connector
- 1.244 Gbps Burst Mode Upstream Transmitter
- 2.488 Gbps Downstream Receiver
- Compliant with ITU-T G.984.2 Amd1, Class B+
- 0.5dBm ~+5dBm launch power, -28 dBm sensitivity, and -8dBm overload
- Wavelengths: US 1310nm, DS 1490nm
- Laser compliant with FCC 47 CFR Part 15, Class B, and FDA 21 CFR 1040.10 and 1040.11, Class I, ONT support Class C or Class C+ optics as an option
- Support G.984.5 Blocking Filter as an option
- Multiple T-CONTs per device
- Multiple GEM Ports per device
- Flexible mapping between GEM Ports and T-CONT
- Activation with automatic discovered SN and password in conformance with ITU-T G.984.3
- AES-128 Decryption with key generation and switching
- FEC (Forward Error Correction) in both directions
- DBA reporting by piggyback reports in the DBRu (mode 0 and mode 1)
- 802.1p mapper service profile on U/S
- Mapping of GEM Ports into a T-CONT with priority queues based scheduling
- Support Multicast GEM port and incidental broadcast GEM port



Working Environment

- Temperature: 0°C ~ 50°C
- Humidity: 5% ~ 95% relative humidity

Safety & EMI

- CE certificate

Installation

- Desktop mounting

Ethernet Interface

- 10/100/1000 Base-T interface with RJ-45 connectors
- Ethernet port auto negotiation or manual configuration
- Hardware priority queues on the downstream direction in support of CoS
- 802.1D bridging
- VLAN tagging/detagging per Ethernet port
- VLAN stacking (Q-in-Q) and VLAN Translation
- Broadcast/Multicast rate limiting

LED

- Power
- ALARM
- Connection
- Ethernet
-

OAM

- Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.984.4 and G.983.2
- Alarming and AVC report, performance monitoring
- Remotely software image download over OMCI, as well as activation and rebooting