

GPON POE ONT-4 Ports



Description

GPON ONT is best suited for Optical LAN Enterprise network and FTTH residential applications. It provides customers 4 Gigabit Ethernet data along with Power over Ethernet (PoE) services. The hardware is Layer-3 capable.

Specifications

- ✓ ITU G.984.x GPON port with 2.488Gbps (downstream) and 1.244Gbps (upstream)
- ✓ 4x 10/100/1000BASE-T Ethernet Ports
- ✓ PoE on all four ports and LTPoE++ on the first port
- ✓ Power adaptor, BBU and PoE Input Powering Options
- ✓ 0 to 40°C operating temperature

Standards

- ✓ ITU-T G.984.x
- ✓ ITU-T G.984.2 Amendment 1, Class B+
- ✓ ITU-T G.988 OMCI
- ✓ IEEE 802.3 Ethernet LAN
- ✓ IEEE 802.1p/1q VLAN/QoS
- ✓ IEEE 802.3at Types 1 and 2
- ✓ LTPoE++

Performance

General

ONT Type	PoE ONT
Uplink	GPON
Downlinks	4x GE
Operating Temperature	0 to 40°C
Operating Humidity	10% to 90%, non-condensing
Dimensions	150 x 102 x 38mm
Installation	Wall-mount, on desktop, or in cubicle wall
Weight	265g
Regulatory	ETL, CE and FCC

GPON

GPON Interface Standard Compliance	1x SC/APC connector, single mode fiber
Transmitter	ITU G.984.2 Class B+ Laser safety standard IEC-60825 Class I
Receiver	1.244Gbps upstream DFB transmitter in 1310nm, with ≥ 10 dB Extinction Ratio Mean launch power in 0.5 to 5dBm range Turn on/off time at burst mode < 12.8ns

TC Layer	2.488Gbps downstream APD receiver in 1490nm, with -8 to -28dBm working range
GPON Features	Isolation (1441-1450nm),(1530-1539nm)>=25dB Isolation (1260-1441nm),(1539-1625nm)>=35dB
	Types 1 to 5 TCONT as defined in G.984.3 32 TCONT, 256 GEM Ports Flexible mapping between TCONT and GEM Ports
	Dying Gasp, Forward Error Correction (FEC), Configurable AES decryption in the downstream direction

Ethernet LAN

Ethernet Interface	8x RJ45 connectors
Standard Compliance	IEEE 802.3, 802.3u, 802.3ab
Link	Half-duplex and full-duplex operations 10/100/1000Mbps auto-negotiation and manual configuration MDI/MDIX auto detection

POE

Standard Compliance	IEEE 802.3at Types 1 and 2, 802.3af, 802.3bt (pre-standard)
Power Output	All ports capable of 60W
PSE Channels	16 independent PSE Channels
Sense Resistance	0.25Ω sense resistance per channel

Power Device

Automatic detection of Power Type and Status Power Priority Management; support legacy power device and LLDP power device

Layer-2 Bridging

MAC

Ethernet frame filtering based on port, SA/DA IEEE 802.3as, Max MTU size 2000bytes
MAC address limiting

VLAN

IEEE 802.1d bridging
Ingress/egress IEEE 802.1p tagging, replacement, and striping IEEE 802.1ad Double tagging
Traffic class forwarding to GEMPort and TCONT

QoS

QoS on first 4 ports
QoS based on 802.1p and 802.1q 802.1p marking based

Multicast

IGMP v2, v3, IGMP snooping

OAM

LED

LED indications and configurable LED hold time

Management

OMCI, CLI, Telnet

Firmware Upgrade

Firmware upgrade, active and alternative firmware images

Diagnostics

Enhanced GPON debug and diagnostic functions Remote debug via telnet from OLT
Log files, memory allocation and crash check

Alarm

Alarm report and suppression (ARC)

PM

All standard PM counters

Power

Power Options	Power adapter, UPS/BBU and PoE Input
Power Adapter	Standard barrel connector 100-240VAC in, 50/60Hz 54VDC out, 1.5A max 12VDC out, 1A (4GE only)
UPS/BBU	2x4 connector for external UPS 54VDC out, 1.5A max 12VDC out, 1A (4GE only) 4 alarms (on battery, battery failure, battery missing, battery low)
PoE Input	70W (LTPoE++)

Ordering Information

Part Number	Description
FGPON-ONT-4POE	ONT WITH 4 PORTS POE