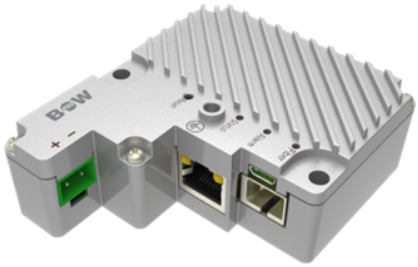
GPON POE OUTDOOR ONT



Description

GPON OUTDOOR ONT is best suited for Passive Optical LAN (POL) Enterprise network, wireless backhaul and outdoor camera/wireless AP applications. It provides customers Gigabit Ethernet data along with Power over Ethernet (PoE) service.

Specifications

- ✓ ITU G.984.x GPON port with 2.488Gbps (downstream) and 1.244Gbps (upstream)
- ✓ 1 x 10/100/1000BASE-T Ethernet Ports
- ✓ PoE+ ON Ethernet port
- ✓ IEEE1588v2 Capable
- ✓ Complete fit inside a standard 4" x 4" outlet box
- ✓ Phoenix connector for remote powering
- ✓ Micro-USB connector for external Ethernet Coupler
- ✓ Environmentally hardened -30 to 60°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

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Performance

General

ONT Type	PoE ONT
Uplink	GPON
Downlinks	1 x GE
Operating Temperature	-30 to 60°C
Operating Humidity	10% to 90%，non-condensing
Dimensions	85 x 72 x 30mm
Installation	Wall-mount / inside outlet box
Weight	174g
Regulatory	ETL, CE and FCC

GPON

GPON Interface	1x SC/APC connector, single mode fiber
Standard Compliance	ITU G.984.2 Class B+ Laser safety standard IEC-60825 Class I
Transmitter	1.244Gbps upstream DFB transmitter in 1310nm,with >=10dB Extinction Ratio Mean launch power in 0.5 to 5dBm range Turn on/off time at burst mode < 12.8ns
Receiver	2.488Gbps downstream APD receiver in 1490nm, with -8 to -28dBm working range Isolation (1441-1450nm),(1530-1539nm)>=25dB Isolation (1260-1441nm),(1539-1625nm)>=35dB
TC Layer	Types 1 to 5 TCONT as defined in G.984.3 32 TCONT, 256 GEM Ports Flexible mapping between TCONT and GEM Ports
GPON Features	Dying Gasp, Forward Error Correction (FEC), Configurable AES decryption in the downstream direction

Ethernet LAN

Ethernet Interface	1 x 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
Power Output	Support max. 30W (802.3at class0-4)
PSE Channels	four 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 on DSCP
Multicast	IGMP v2, v3, IGMP snooping

OAM

LED	Power, PON , Ethernet
Management	OMCI, CLI, Web, 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	DC input via Phoenix connector
AC-DC Adapter	30-60VDC

Ordering Information

Part Number	Description
FGPON-ONT-OPOE-L	GPON ONT WITH 1 PORTS POE OUTDOOR