



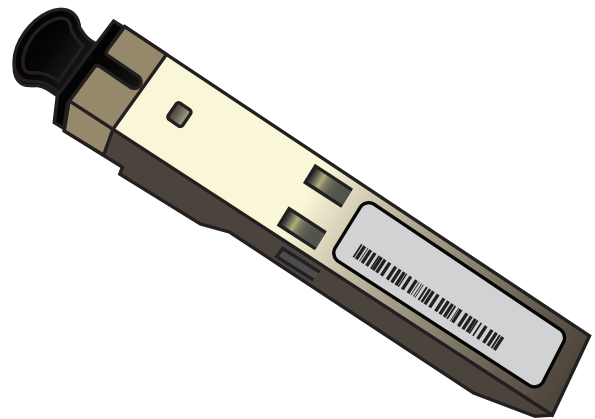
Features and Benefits |

- Small Form Factor Pluggable, SC/APC Connector
- 1490nm continuous-mode receiver with APD-TIA
- 1310nm burst-mode transmitter with DFB laser
- 2488Mb/s downstream and 1244Mb/s upstream
- Compliant with ITU-T G984.2 Class B+ or C+
- 2-wire interface for integrated digital diagnostic monitoring (SFF-8472)

As the industry leader of truly independent Optical Network Terminal (ONT) solutions, Corning continues to introduce innovations with the industry's first multi-OLT compatible GPON SFP ONT. The Corning GPON SF PONT delivers high quality Ethernet data service for high-speed internet access, and IPTV video. The SFP ONT is temperature hardened and can withstand installations where any other telecommunications equipment is deployed. Additionally, it supports a full 2.5 gigabit downstream connection into the host device where it is installed.

Standard Compliance |

- ITU-T G.984.x (G.984.5 support)
- SFF-8472
- FCC 47 CFR Part 15, Class B
- FDA 21 CFR 1040.10 & 1040.11, Class I
- IEEE 802.3 Ethernet
- ITU-T G.984.2 Amd1, Class B+
- 802.1 q/p VLANs
- CE, FCC regulatory
- RoHS-6 compliant (lead-free)



General

Uplink	GPON
Downlink/ Uplink Speed	2.5 G/1.25 G
Operating Temperature	-40 to 85C (case temperature)
Power	Average power consumption is $\leq 2W$ for the entire operating temperature range
Operating Humidity	10% to 90%, non-condensing
Dimensions	75mm x 13.4 mm x 8.5 mm

GPON

GPON Interface Standard Compliance

- 1x SC/APC connector, single mode fiber
- ITU G.984.2 Class B+
- Laser safety standard IEC-60825 Class I

Transmitter

- 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

Receiver

- 2.488Gbps downstream APD receiver in 1490nm, with -8 to -28dBm working range
- Isolation (1441-1450nm),(1530-1539nm) ≥ 25 dB
- Isolation (1260-1441nm),(1539-1625nm) ≥ 35 dB

TC Layer

- Types 1 to 5 TCONT as defined in G.984.3
- 8 TCONTS, 32 Queues, 256 GEM Ports
- Flexible mapping between TCONT and GEM Ports

GPON Features Dying Gasp, Forward Error Correction (FEC), Configurable AES

LAN

Standard Compliance IEEE 802.3, 802.3u, 802.3ab

Link 2.5 G/1.25 G

Layer-2 Bridging

Bridging

- Ethernet data frame filtering based on port, SA/DA
- 2000byte MTU, Compliant with IEEE 802.3as
- forwarding traffic class into GEMPORT & TCONT
- double tagging, compliant with IEEE 802.1ad

QoS

- 802.1p, 802.1d, 802.1q based QoS
- classify packets based on different values
- classify packets based on 5 classification combination
- SP, WRR, SP+WRR scheduler on upstream

Multicast

- IGMP V2/V3 Snooping
- Ethernet data frame filtering based on port, SA/DA
- 2000byte MTU, Compliant with IEEE 802.3as
- Forwarding traffic class into GEMPORT & TCONT
- Double tagging, compliant with IEEE 802.1ad

OAM

Management OMCI

Firmware Upgrade Firmware upgrade, active and alternative firmware images

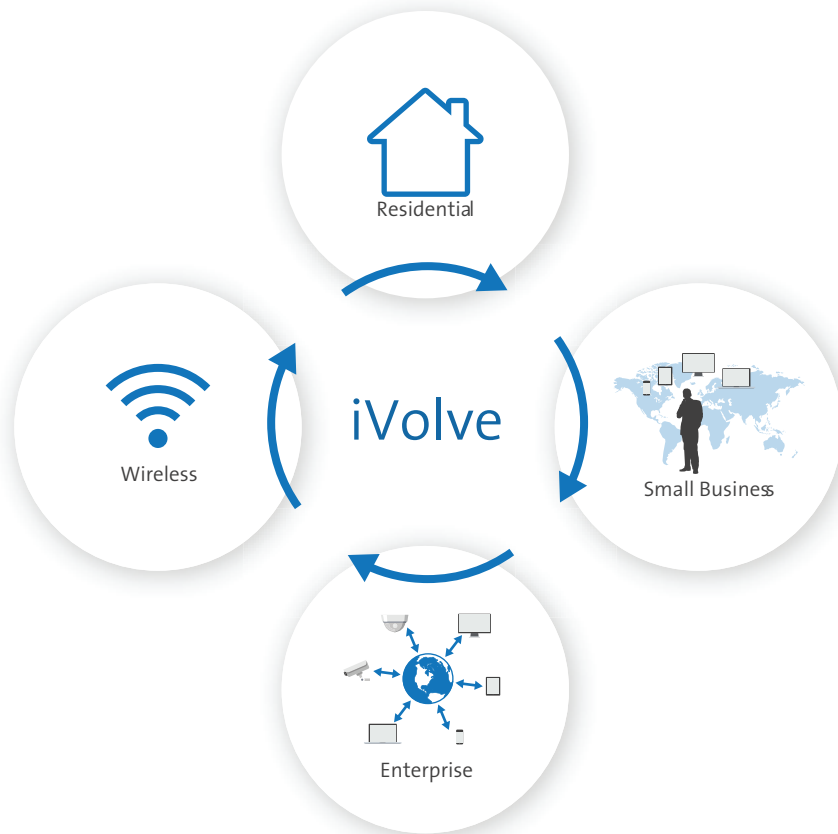
Diagnostics

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

Alarm Alarm report and suppression (ARC)

PM All standard PM counters

Complete Optical Access Solution



iPhotonix Model Number 330-0288-xxx

