



T060G SFU ONT (4 GE)

T-SERIES ONT
EDA 1500 PORTFOLIO



The T060G is an ITU-T G.984 ONT designed for delivery of IP-based data services and IPTV video services to single-family homes and apartments. The T060G offers four Gigabit Ethernet ports.

T060G

INDOOR GPON ONT

Hi-speed IP Convergence at the Home

The T060G is designed for indoor installation and can be desktop- or wall-mounted. A single optical fiber carries upstream and downstream traffic over the GPON between the OLT and the ONT. The T060G is fully provisioned and managed from the OLT using PLOAM/OMCI.

IPTV Services

For IPTV services the T060G serves both PON multicast and unicast video-on-demand (VoD). This capability removes the need to transport multiple copies of the same content, greatly improving bandwidth efficiency.

The T060G optimizes multicast switching performance using IGMP snooping standard. With the IGMP snooping standard, the T060G monitors the join and leave messages generated by the set-top box to selectively deliver multicast streams only to the involved ports.

Advanced Data Services

Data capabilities for the T060G include data transfer at wirespeed, auto-negotiation and autosensing. The T060G built-in Ethernet switch features VLAN manipulation, classification and filtering.

Quality of Service

The T060G supports VLAN QoS priority and DBA which provides a flexible use of the upstream bandwidth.



TECHNICAL SPECIFICATIONS

T060G

GENERAL FEATURES

Compliance

- ITU-T G.984.1 - GPON General characteristics
- ITU-T G.984.2 - GPON Physical Media Dependent (PMD) layer specification
- ITU-T G.984.3 - GPON Transmission convergence layer specification
- ITU-T G.984.4 - ONT Management and Control Interface (OMCI) specification
- ITU-T G.984.5 - Enhancement band for gigabit capable optical access networks
- IEEE 802.1, 802.1D, 802.3i, 802.1p, 802.1q, 802.3u, 802.3ab

Layer 2 protocol

- Ethernet over GPON Encapsulation Method (GEM)
- 8 T-CONTs
- 32 GEM Port ID
- Fully remote managed through PLOAM/OMCI
- Supports FEC and AES encryption

NETWORK INTERFACE

- Class B+ GPON optical transceiver
- Diplexer fiber class B+

Throughput

- Line rate at 2488 Mbps downstream and 1244 Mbps upstream
- 8 KHz framing downstream
- TDMA upstream

Transmitter (Upstream)

- DFB laser diode
- Wavelength: 1310 nm \pm 20 nm
- Average optical transmit power: up to +5 dBm

Receiver (Downstream)

- APD receiver
- Wavelength: 1490 nm \pm 10 nm
- Sensitivity: -28 dBm

SUBSCRIBER INTERFACES

- Four 10/100/1000Base-T GigE ports
- RJ45 connectors
- Ethernet ports are autosensing and autonegotiating
- Management and firmware upgrades through OMCI
- VLAN QoS and T-CONT types 1-5
- 802.1D learning bridge, 4096 MAC addresses
- 802.1p mapper with classifier, eight priority levels
- 802.1Q tag-based VLANs
- QinQ or port based VLANs
- Ethernet jumbo frames (2k)

OPTICAL CONNECTOR

- Female single-mode SC/APC connector

IPTV SUPPORT

- PON multicast
- 128 simultaneous multicast streams
- Unicast Video-on-Demand (VoD)
- IGMP snooping, v1, v2, v3

PHYSICAL SPECIFICATIONS

Dimensions

HxWxD: 34.5 x 168 x 130 mm
(HxWxD: 1.4 x 6.6 x 5.1 in)

Weight

287 gram (0.6 lb)

Mounting Options

Desktop or wall-mount

LED Indicators

- Power
- Alarm
- PON Link
- PON Act
- GigE 1-4

Power adaptor

- Input 100 - 240V, 50 - 60 Hz, 0.5A
- Output: 12 VDC/1A

Power consumption

Under 10W

UPS 8-pin connector, signals:

- Battery missing
- On battery
- Battery low
- Replace battery

ENVIRONMENTAL SPECIFICATIONS

Operating Temp, Max

0°C to +45°C (32°F to 113°F)

Operating Humidity, Max

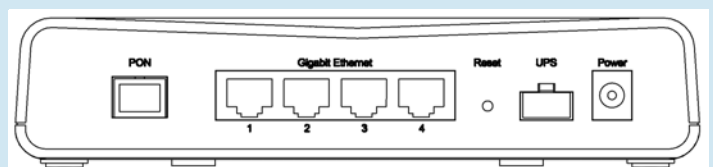
5 - 95% RH, noncondensing

REGULATORY

EM/EMC: EN 300 386 Class B

Safety: EN 60950 and IEC 60950 with all national deviations

RoHS: EU directive 2002/95/EC



T060G ONT Back Panel

Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership.

Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.

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