



T063G SFU ONT (4 GE, 2 POTS)

T-SERIES ONT
EDA 1500 PORTFOLIO



The T063G 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 and two POTS ports.

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T063G

INDOOR GPON ONT

Hi-speed IP Convergence at the Home

The T063G 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 T063G is fully provisioned and managed from the OLT using PLOAM/OMCI.

VoIP Services

The T063G includes an integrated SIP or H.248 user client for carrier-class voice services.

IPTV Services

For IPTV services the T063G 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.

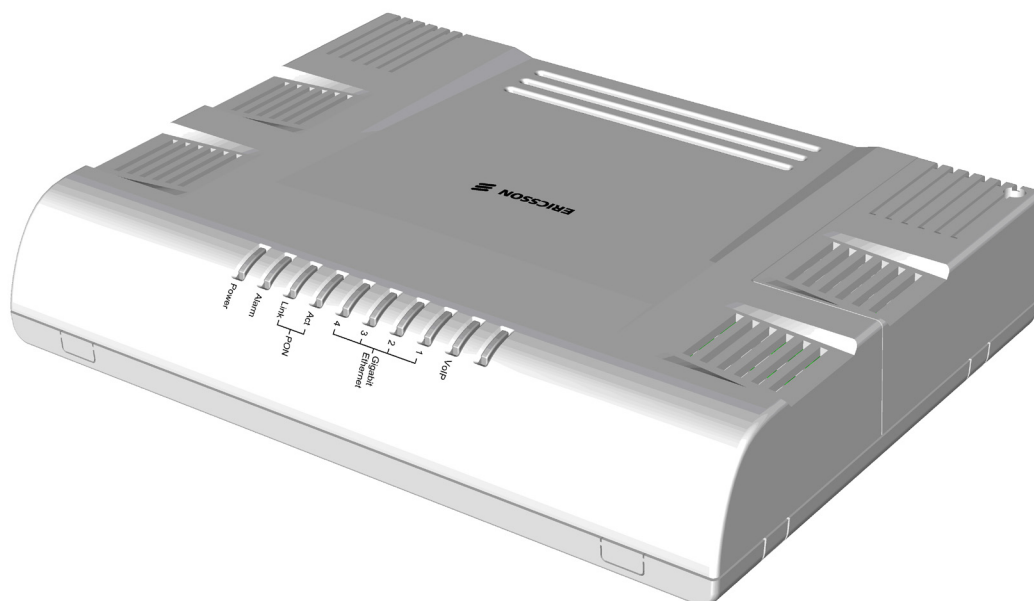
The T063G optimizes multicast switching performance using IGMP snooping standard. With the IGMP snooping standard, the T063G monitors the join and leave messages generated by the set-top box to selectively deliver multicast streams only to the involved ports.

Advanced Data Services

Data capabilities for the T063G include data transfer at wirespeed, auto-negotiation and autosensing. The T063G built-in Ethernet switch features VLAN manipulation, classification and filtering.

Quality of Service

The T063G supports VLAN QoS priority and DBA which provides a flexible use of the upstream bandwidth.



TECHNICAL SPECIFICATIONS

T063G

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 - GPON: 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

POTS PORTS

- Two ports with RJ11 connectors
- Voice Signaling: VoIP using SIP or H.248
- Call Features: Outgoing, Incoming call, Call waiting, Call transfer, Three-party conference, DTMF In/Out band
- Caller ID FSK, DTMF
- Voice CODECs: G.711 μ -law, A-law, (optional G.723.1A, G.726, G729A)
- Modem voice band data over IP, support up to v.34
- G168 echo cancellation
- Configurable dial plan
- T38 Fax relay

PHYSICAL SPECIFICATIONS

Dimensions

HxWxD: 43.8 x 238 x 173 mm
(HxWxD: 1.7 x 9.4 x 6.8 in)

Weight

645g (1.4 lb)

Mounting Options

Desktop or wall-mount

LED Indicators

- Power
- Alarm
- PON Link
- PON Act
- GigE 1-4
- VoIP 1-2

Power adaptor

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

Power consumption

Under 20W

UPS 8-Pin Connector, Signals:

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

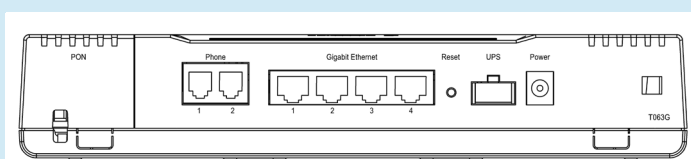
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature, Max
0°C to +45°C (32°F to 113°F)

Operating Humidity, Max
5 - 95% RH, noncondensing

REGULATORY

EMI/EMC: EN 300 386 Class B
Safety: EN 60950 and IEC 60950 with all national deviations
RoHS: EU directive 2002/95/EC



T063G ONT Back Panel