# T067G SFU ONT (4 GE, 2 POTS, RF)

T-SERIES ONT

EDA 1500 PORTFOLIO

The T067G is an ITU-T G.984 ONT designed for delivery of telephone services, IP-based data services, IPTV video services, and RF video services to single-family homes and apartments. The T067G offers four Gigabit Ethernet ports, two POTS ports, and one RF video port.

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# T067G
## INDOOR GPON ONT

### Hi-speed IP convergence at the home
The T067G 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 T067G is fully provisioned and managed from the OLT using PLOAM/OMCI.

### VoIP services
The T067G includes an integrated SIP or H.248 user client for carrier-class voice services.

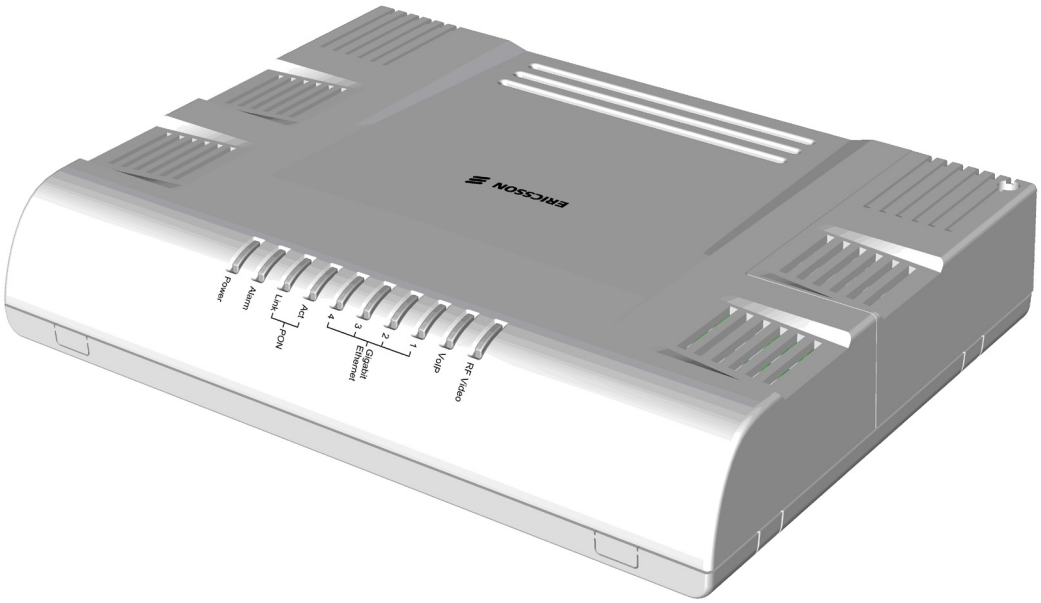
### IPTV services
For IPTV services the T067G serves both PON multicast and unicast video-on-demand. This capability removes the need to transport multiple copies of the same content, greatly improving bandwidth efficiency.

The T067G optimizes multicast switching performance using IGMP snooping standard. With the IGMP snooping standard, the T067G 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 T067G include data transfer at wirespeed, auto-negotiation and auto-sensing. The T067G built-in Ethernet switch features VLAN manipulation, classification and filtering.

### RF video
The T067G supports an RF video overlay at 1550 nm which can provide up to 80 analog channels without requiring a set-top box in addition to hundreds of digital channels.

### Quality of Service
The T067G supports VLAN QoS priority and DBA which provides a flexible use of the upstream bandwidth.



# TECHNICAL SPECIFICATIONS
# T067G

## 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 H.248v2 - Gateway control protocol
– RFC 3550, RFC 3551, RFC 2833 - Transport Protocol for Real-Time Applications (RTP)
– RFC 3261, 3265, 3311, 3262, 3515 - Session Initiation Protocol (SIP)
– 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 ± 20 nm
– Average optical transmit power: up to +5 dBm

Receiver (Downstream)
– APD receiver
– Wavelength: 1490 nm ±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

## RF VIDEO PORT
– 75-ohm Type F coaxial connector
– Remotely provisionable port
– Operating bandwidth: 54 - 870 MHz
– RF output power: 14.5 dBmV per channel

## FIBER MANAGEMENT
Integrated fiber slack storage

## 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 180 mm
(HxWxD: 1.7 x 9.4 x 7.1 in)

Weight
670 gram (1.5 lb)

Mounting Options
Desktop or wall-mount

LED Indicators
– Power
– Alarm
– PON Link
– PON Act
– GigE 1-4
– VoIP 1-2
– RF Video

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

Power Consumption
Under 20W

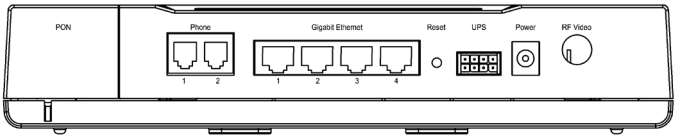
UPS 8-Pin Connector, Signals:
– Battery missing
– On battery
– Battery low
– Replace battery

## ENVIRONMENTAL SPECIFICATIONS

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

Operating Relative Humidity, Max
5 - 95%, noncondensing

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




T067G ONT Back Panel