T061G SFU ONT (1 GE)

T-SERIES ONT

EDA 1500 PORTFOLIO

The T061G 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 T061G offers one Gigabit Ethernet port with optional PoE function.

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Telefonaktiebolaget LM Ericsson
SE-126 25 Stockholm, Sweden
Telephone +46 8 719 0000
Fax +46 8 18 40 85
www.ericsson.com

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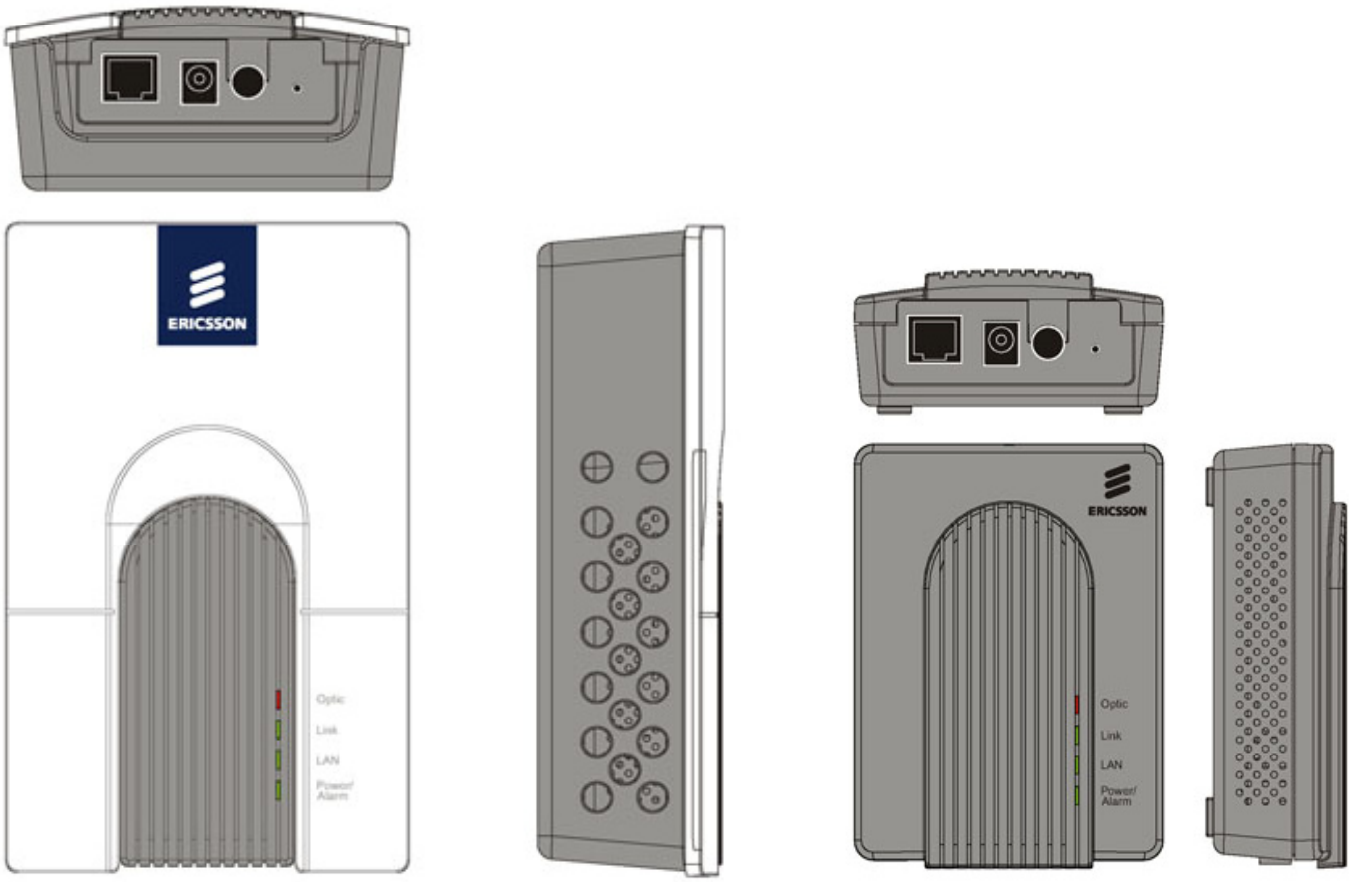
T061G
INDOOR SINGLE-PORT GPON ONT

Hi-speed IP Convergence at the Home
The T061G is a mini-ONT designed for indoor installation in a compact form factor, ideally used for fiber-to-the-desktop solutions. The hardware consists of a single base unit for tabletop placement and a fiber tray is also available for fiber storage and wall mounting options. A single optical fiber carries upstream and downstream traffic over the GPON between the OLT and the ONT. The T061G is fully provisioned and managed from the OLT via OMCI channel.

IPTV Services
The T061G supports IP video through its data port. For IPTV services the T061G 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 T061G optimizes multicast switching performance using IGMP filtering and snooping standard. With the IGMP snooping standard, the T061G monitors the join and leave messages generated by the set-top box to selectively deliver multicast streams only to the involved ports.

Quality of Service
The T061G supports port-based VLAN QoS and weighted round-robin priority which is the simplest, most-effective method of distributing requests to a single-point of entry as well as classification and filtering features. In addition, T061G provides DBA which provides a flexible use of the upstream bandwidth.



TECHNICAL SPECIFICATIONS
T061G

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
– IEEE 802.1p, 802.1q, 802.3, 802.3u, 802.3x, 802.3z, 802.3ab

Layer 2 protocol
– Ethernet over GPON Encapsulation Method (GEM)
– 5 T-CONTs
– Fully remote managed through OMCI channel
– Supports AES-128 encryption
– Loopback test

NETWORK INTERFACE
– Diplexer fiber class B+
– FEC additional

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: -27 dBm

SUBSCRIBER INTERFACES

– One SC/APC connector for GPON transceiver
– RJ45 connector for 10/ 100/ 1000
– Reset button
– Power switch
– BASE-T with optional PoE function
– Ethernet port is autosensing and autonegotiating
– Management and firmware upgrade via OMCI channel
– VLAN QoS
– QinQ or port based VLAN
– Weighted Round-Robin priority
– Strict priority

OPTICAL CONNECTOR
– Female single-mode SC/APC connector

IPTV SUPPORT
– PON multicast
– 128 simultaneous multicast streams
– Unicast Video-on-Demand (VoD)
– IGMP filtering and snooping
– Multicasting IGMP v1, v2, v3

PHYSICAL SPECIFICATIONS

Dimensions
Base Unit
HxWxD: 35 x 81 x 107 mm
(HxWxD: 1.3 x 3.2 x 4.2 in)
Fiber Tray
HxWxD: 47x 102 x 167 mm
(HxWxD: 1.8 x 4.0 x 6.6 in)

Mounting Options
Desktop or wall-mount

LED Indicators
– Link
– LAN
– Power/ Alarm

Power adaptor
– DC 12V DC/ 1A max input
– PoE: IEEE 802.3af (optional)

Power consumption
Under 10W

ENVIRONMENTAL SPECIFICATIONS

Operating Temp, Max
-5°C to +50°C (23°F to 122°F)

Operating Humidity, Max
5 -95% RH, noncondensing

REGULATORY
EMI/EMC: EN 300 386 Class B

CONNECTOR POSITIONS