

# H660GM

Compact WLAN GPON ONT (Optical Network Termination)  
for the connection to the V-Series GPON OLTs



H660GM

The H660GM is a compact ONT that provides highly reliable residential and business services in PON networks. The ONT is ideal for all applications that require POTS and a multitude of Ethernet interfaces for high-speed Internet.

Thanks to the used leading edge GPON technology, bandwidth-intensive multimedia services such as real time video, audio and gaming can be provided much easier and faster than ever before.

## ■ Interfaces

H660GM offers a multitude of interfaces to provide the required services:

- 1x GPON with data rates of 1.25 Gbps in upstream direction and 2.5 Gbps in downstream direction
- 4x Gigabit Ethernet ports (10/100/1000Base-T)
- 1x analogue telephony (FXS)
- Wireless LAN

- Supports the ITU-T G.984 standard

- Uplink interface with 2.5 Gbps downstream and 1.25 Gbps upstream

- 4 GbE LAN interfaces

- High-Speed WLAN according to IEEE802.11b/g/n/ac

- Supports IGMP snooping for IPTV applications

- Management via OMCI (ONT management control interface)

## ■ Services

H660GM supports high-speed Internet and telephony services.

The ONT uses the Session Initiation Protocol (SIP) to terminate VoIP calls. So the in-home wiring must not be changed and existing analogue telephones can continue to be used.

The ONT functionality contains a wire-speed L2 switch as well as a L3 routing gateway with port forwarding, NAT and NAPT address translation and PPPoE client support for high-speed Internet service.

The ONT is designed for installation in houses. It can be used as a desktop unit or simply mounted onto a wall.

#### ■ PON benefits

PON technology offers cost-efficient FTTx services thanks to the point-to-multipoint concept.

The use of passive optical splitters in opposite to active switch systems makes passive optical networks a cost-efficient solution.

#### ■ Management

The configuration of the ONTs and the provided services is realised completely via the OMCI (ONT Management Control Interface).

### Technical data

General	
Network function	GPON ONT
Full duplex modus	WAN, LAN
GPON interface	
Standards supported	Compatible with ITU-T G.984x, Forward Error Correction (FEC) SC/APC type, Advanced Encryption Standard (AES) Multiple T-CONTs/GEM ports per device, Single/multiple T-CONT(s) mode Flexible mapping between GEM port and T-CONT, Dying gasp Priority queues and scheduling in upstream Activation with with automatic detection of serial number and password
Optical connector	SC/APC
LAN interface	
Standard supported	4x Gigabit Ethernet (10/100/1000Base-T – RJ45)
Multicast	
Multicast function	IGMP snooping, IGMP proxy
Layer-2 switch functionality	
Standards supported	Untagged port configuration IEEE802.1D and IEEE802.1Q bridging Standard Ethernet bridging MAC address learning with auto aging and filtering
QoS (Quality of service)	
Standards supported	Hardware based with internal IEEE 802.1p (CoS), Strict Priority (SP) 802.1Q (VLAN tag) QoS mapping, ToS/CoS
Number of queues	8
WLAN interface	
Standards supported	IEEE802.11b/g/n/ac compliant, 4 antennas, Bandwidth: 2.4GHz and 5GHz Max. data rate: 300Mbps in 802.11n, 867 Mbps in 802.11ac, 2x 2 MIMO Security: WEP with 64/128 bit, WPA-PSK (TKIP) & WPA2-PSK (AES) Wi-Fi protected setup (WPS), multiple SSIDs
VoIP interface	
Standards supported	SIP (RFC3261/3262/3264), 5-REN per POTS, T.38 FAX mode Multiple codecs: G.711, G.723.1, G729, echo cancellation
Management	
Standard supported	According to ITU-T 984.4 with OMCI interface IEEE802.3x flow control
Mechanics	
Dimensions (W x H x D)	160 mm x 210 mm x 130 mm
Power supply	
Input voltage	12VDC with external power plug 100-240VAC (50/60Hz)
Operation environment	
Operation temperature	-5 °C to 50 °C
Humidity	20% to 90% (non-condensing)

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