

- [**Product Overview**](#)
- [Service Scenario for PON](#)
- [Interface Layout](#)
- [Operating Status LEDs](#)
- [**Product Specifications**](#)
- [Capabilities](#)
- [Physical Specifications](#)
- [**Ordering Information**](#)

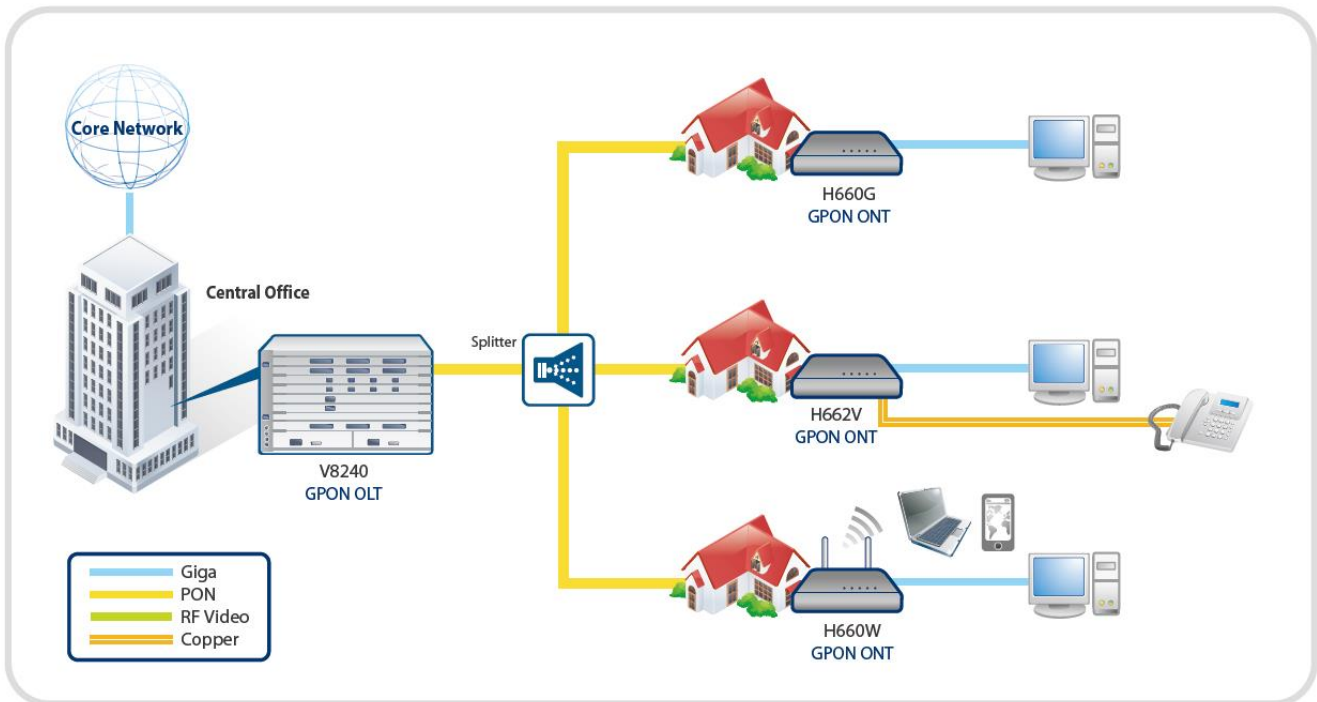
Product Overview

The H662V optical network terminal is targeted for all subscribers requiring multiple POTS and high-speed data interfaces in a cost-effective indoor housing. Fully compliant with ITU-T G.984 standards, the H662V supports data rates of 1.25Gbps upstream and 2.5Gbps downstream. With DASAN's leading-edge GPON technology, users can enjoy bandwidth-intensive multimedia services such as real-time audio and gaming much easier and faster than ever before.

The H662V provides one GPON uplink port, one 10/100/1000Base-T, one Ethernet 10/100Base-T port, and FXS voice port that enhance the ability to deliver demanding VoIP. The H662V uses Session Initiation Protocol (SIP) to terminate VoIP calls so that in-home wiring does not change and standard telephone sets may be used.

The H662V contains both built-in wire-speed L2 switch and L3 routing gateway with port forwarding, NAT and NAPT address translation, PPPoE client support for high speed internet service.

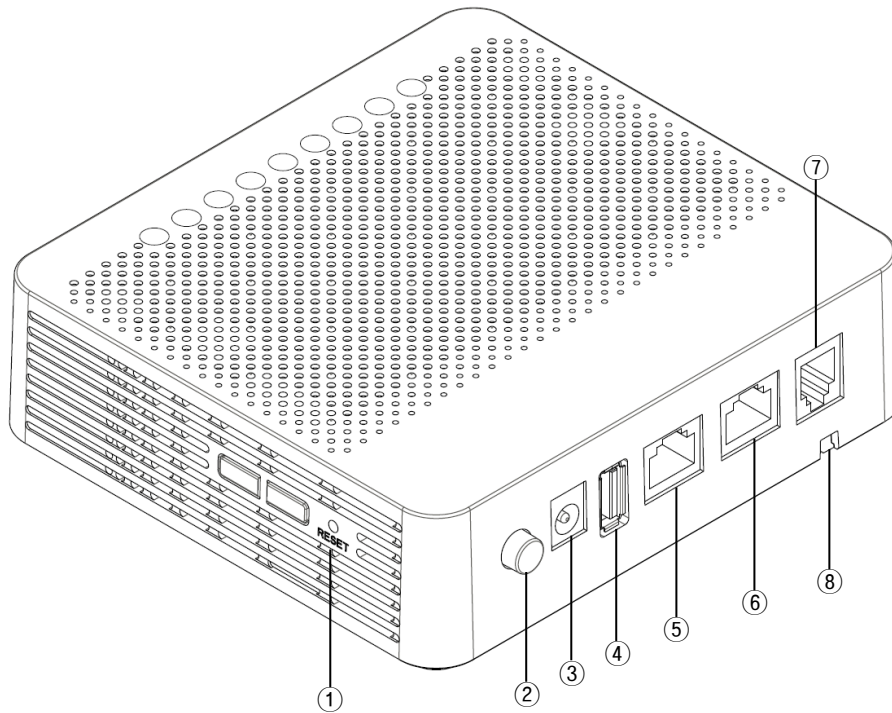
Service Scenario for PON



A PON consists of an Optical Line Termination (OLT) located at the Central Office and a set of Multi Dwelling Units (MDUs) or Optical Network Terminals (ONTs) located at the customer's premises. Between them is the optical distribution network (ODN) comprised of fibers and passive optical splitters or couplers. A splitter is a device that divides an optical signal into two or more signals. The OLT connects the PON to the IP network that controls and manages the PON clients. ONT connects the user-specific network. The ONT can be utilized by a single subscriber or used as a multi-dwelling gateway for a local network.

Interface Layout

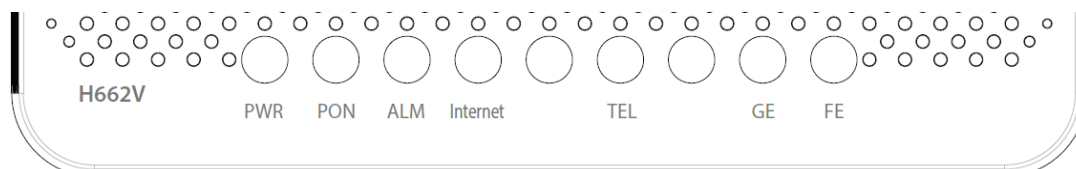
The following drawing shows the interface layout of the product.



Interface Name	Description	Connector Type
① RESET button	Reboot the unit.	-
② ON/OFF button	Turn on/off the unit.	-
③ Adapter Jack	Connect to the external power supply.	-
④ CONSOLE	USB port for console access	USB
⑤ GE	Connect to a PC or LAN. 1 10/100/1000 Base-T interface for data communication	RJ45
⑥ FE	Connect to a PC or LAN. 1 10/100 Base-T interface for data communication	RJ45
⑦ TEL	Connect to a telephone. 1 FXS interface for phone service	RJ11
⑧ OPTIC LINE	Connect to OLT via a passive optical splitter. 1 GPON uplink interface	SC/APC

Operating Status LEDs

The status of the ONT is indicated by the LEDs located on the front of unit. LED indicators illuminate to show normal ONT operation, and will blink and/or turn off to indicate the current status or errors. Refer to the following table for details of each LED state.



Label	Color	Status	Description
PWR	Green	On	The system is turned on.
		Off	The system is turned off.
PON	Red	On	No optic signal. And the unit has not been registered.
	Green	On	Optic signal normal. Normally registered. OMCI success.
		Blinking	Firmware being downloaded.
ALM	Red	On	No optic signal, firmware update failure or other faults.
		Off	Received optical power is normal.
Internet	Green	On	In service
		Off	Not in service
TEL	Green	On	Hook off
		Off	Hook on
GE	Green	On	The 1G port link is up.
		Blinking	The 1G transmit or receive activity is present on the service port.
	Orange	On	The 10/100M port link is up.
		Blinking	The 10/100M transmit or receive activity is present on the service port.
	Off	The link is down.	
FE	Green	On	The 100M port link is up.
		Blinking	The 100M transmit or receive activity is present on the service port.
	Orange	On	The 10M port link is up.
		Blinking	The 10M transmit or receive activity is present on the service port.
	Off	The link is down.	

Product Specifications

Capabilities

System

- 128MB Flash Memory
- 128MB SDRAM
- GPON Interface Capacity:

GPON ONT

- ITU-T G.984.x compliant
- Forward Error Correction (FEC)
- Multiple T-CONTs/GEM ports per device
- Flexible mapping between GEM port and T-CONT
- Priority queues and scheduling on Upstream
- Activation with automatic discovered Serial Number and password
- Dying GASP

L2/L3/L4

- IEEE802.1D and IEEE802.1Q
- Address learning with auto aging
- VLAN Filter
- L2/L3 Filter
- BPDU Filter
- Static routing
- DHCP server / client
- DNS proxy
 - Auto / Manual
- NAT/NAPT/Port forwarding (Forwarding engine up to 16K)
- MCL, DDNS, UPnP Port mapping, ALG
- NTP
- PPPoE client
 - Automatically initiating the session
 - Automatically keep alive
- NAT Loopback

Multicast

- IGMP snooping
- IGMP proxy

Quality of Service

- HW-based internal IEEE 802.1p (CoS)
- Strict Priority (SP)
- 802.1Q (VLAN tag) QoS mapping, ToS/CoS
- 8 queues per port

Management

- ITU_T 984.4 compliant OMCI interface
- IEEE802.3x flow control
- LED indications for maintenance
- Web-based management
- ONT service provisioning
- TR-69

VLAN

- VLAN port filtering

VoIP Features

- SIP (RFC3261/3262/3264)
- 5-REN per POTS
- RTP, RTCP (RFC3550/3551)
- DTMF dialing / Pulse dialing
- Multiple codecs: G.711, G.723.1, G729
- T.38 FAX mode
- Echo cancellation

Physical Specifications

Mechanics

- Case Dimensions (W x H x D)
5.12 x 1.57 x 4.72 in
(130 x 40 x 120 mm)

Environmental Conditions

- Operating temperature
23 to 131°F (-5 to 55°C)
- Storage temperature
-22 to 140°F (-30 to 60°C)
- Operating humidity
0 to 90% (non-condensing)

Power Voltage (AC/DC Adapter)

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

Interface Parameter

- GPON i/f
1 GPON port (SC/APC type)
- Ethernet i/f
1 10/100/1000Base-T port
(RJ45)
1 10/100Base-T port (RJ45)
- FXS i/f
1 FXS port (RJ11)

Operating Indicators (LED)

- PWR ON / OFF
Power status
- PON ON / Blinking
ONT registration status
- ALM ON / OFF
Optical signal status
- Internet ON / OFF
Configuration status
- TEL ON / OFF
Off/On-hook status
- GE ON / Blinking / OFF
LAN port link status
activity status
- FE ON / Blinking / OFF
LAN port link status
activity status

Ordering Information

Base Standard
<u>H662V</u> 1-Port G-PON (Class B+, ITU-T G.984), 1-Port 10/100/1000Base-T, 1-Port 10/100Base-T, 1-Port POTS - SC/APC Connector type - Power Adaptor : Input 100~240VAC, Output 12V/0.5A - CE Certification

DASAN Network Solutions, Inc.

DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400, KOREA
Tel. +82-70-7010-1000 Fax. +82-31-622-6501 www.dasannetworks.com