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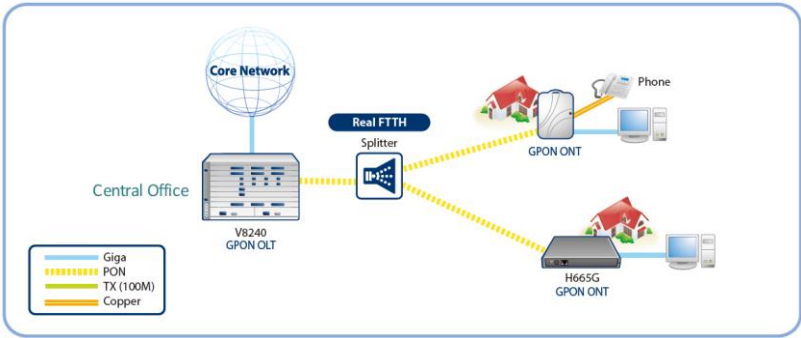
Product Overview

The H665G is Optical Network Terminal (ONT) compliant with ITU-T G.984 standard. DASAN Networks has developed H665G for all clients on the basis of Gigabit Passive Optical Network (GPON) technology. GPON technology supports upstream 1.25Gbps and downstream 2.5Gbps data transmission rate. With DASAN's leading-edge GPON technology, users can enjoy bandwidth-consuming multimedia services such as real-time video, audio and gaming much easier and faster than ever before.

The H665G is comprised of one GPON uplink port and one Gigabit Ethernet downlink port supporting 10/100/1000Base-T (RJ45). It helps service providers to extend their core optical network all the way to their subscribers, eliminating bandwidth bottlenecks in the last mile. With the GbE service interface, it delivers data at the speed of 1000Mbps to the connected subscriber equipment. The H665G utilizes technology for intelligent IP-based access allowing reliability of network deployment models and management system.

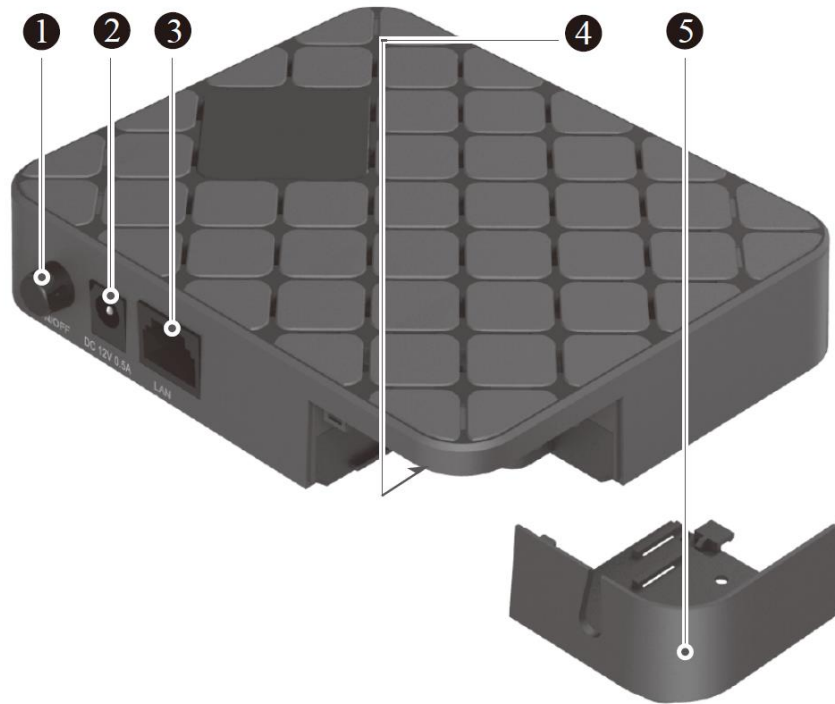
Service Scenario for PON

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. An MDU (ONT) connects the user-specific network to the PON. The ONT can be utilized by a single subscriber or used as a multi-dwelling gateway for a local network.



Interface Layout

The following diagram shows the interface layout of the product.



The following table describes each interface as indicated in the diagram above.

Interface Name	Description	Connector Type
① Power ON/OFF Button	To turn on/off the unit	-
② Adapter Jack	To connect the external power adapter	DC2.0
③ LAN port	To connect to the PC or LAN 1 x 10/100/1000Base-T interface for data communication	RJ45
④ Uplink port	To connect to OLT via a passive optical splitter 1 GPON uplink interface	SC/APC
⑤ Optic Cover	To protect optic connection	-

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 starting up to boot and operation.
		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.
		Blinking	Firmware being downloaded. DO NOT turn off the unit.
	Orange	On	No optic signal after registered normally.
Blinking		The unit has not been registered.	
ALM	Red	On	No optical signal, firmware update fail or other faults.
		Blinking	Error rate high. Required to check optic cable routing or vending.
	Orange	Blinking	Loopback test being performed.
	Off		ONT normally operating.
SPD	Green	On	The 1G link is up on LAN interface.
		Blinking	The 1G transmit or receive activity is present on the service port.
	Orange	On	The 100M link is up on LAN interface.
		Blinking	The 100M transmit or receive activity is present on the service port.
	Red	On	The 10M link is up on LAN interface.
		Blinking	The 10M transmit or receive activity is present on the service port.
Off		Link is down.	
DPX	Green	On	Full duplex
	Orange	On	Half duplex
	Off		Link is down.

Product Specifications

Capabilities

System

- 16MB Flash Memory
- 128MB SDRAM
- GPON Interface Capacity:
Up 1.25Gbps / Down 2.5Gbps

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
- Support Single /Multiple T-CONT(s) mode
- Flexible mapping between GEM Ports and T-CONT
- Priority queues and scheduling on Upstream
- Activation with automatic discovered Serial Number and password
- Dying Gasp

L2 Switch

- Untagged port configuration
- IEEE802.1D and IEEE802.1Q bridging
- Standard Ethernet bridging
- Spanning tree protocol
- MAC address learning with auto aging

Multicast

- IGMP snooping

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

VLAN

- VLAN port filtering
- Destination address port filtering

Physical Specifications

Mechanics

- Dimensions (W x H x D)
4.80 x 1.02 x 3.93 in (122 x 26 x 100 mm)

Environmental Conditions

- Operating temperature
23 to 122°F (-5 to 50°C)
- Operating humidity
20 to 90% (non-condensing)

Power Voltage (Adapter)

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

Interface Parameter

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

Operating Indicators

- PWR: ON / OFF, system power
- PON: ON / Blinking / OFF, ONT registration, optical power status
- ALM: ON / Blinking / OFF, alarm status
- SPD: ON / Blinking / OFF, Port speed status
- DPX: ON / OFF, Full / Half duplex status

Ordering Information

Base Standard
<p><u>H665G</u></p> <p>1-Port G-PON (Class B+, ITU-T G.984), 1-Port 10/100/1000Base-T</p> <ul style="list-style-type: none">- PON MAC, Flash 16MB and SDRAM 128MB- SC/APC Connector type- Power Adaptor : Input 100~240VAC, Output 12V/0.5A- CE Certification- Overseas specification

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