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Product Overview

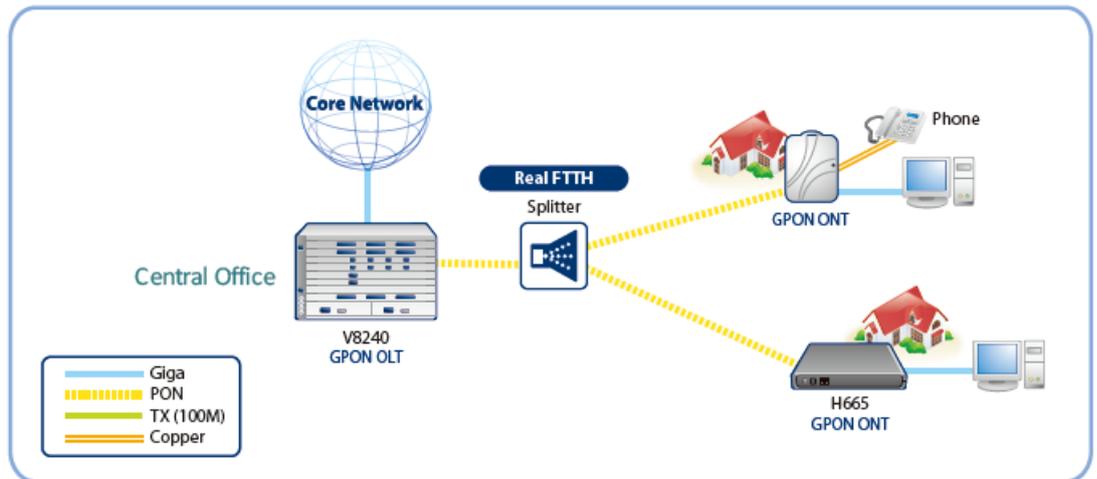
The H665 is Optical Network Terminal (ONT) compliant with ITU-T G.984 standard. DASAN Networks has developed H665 for all clients on the basis of Gigabit Passive Optical Network (GPON) technology. GPON technology supports upstream 1.25Gbps and downstream 2.5Gbps data transmission rate. With DASAN's leading-edge 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 H665 is comprised of one GPON uplink port and one Gigabit Ethernet downlink port supporting 10/100/1000Base-T (RJ45). The H665 supports high speed internet access service.

The H665 contains both built-in wire-speed L2 switch and L3 routing gateway with port forwarding, NAT and NAPT address translation, multiple PPPoE clients 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. 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 OPTICAL port	Connect to the OLT via a passive optical splitter 1 x GPON uplink interface	SC/APC
② LAN port	Connect to the PC or LAN 1 x 10/100/1000Base-T interface for data communication	RJ45
③ POWER port	Connect the external power supply	AC/DC adapter
④ ON/OFF Button	Turn on/off the unit	-
⑤ Reset Button	Reboot the unit	-

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
POWER	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.	
ALARM	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.
LAN	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.	

Product Specifications

Capabilities

System

- 128MB Flash Memory
- 128MB SDRAM
- GPON Interface Capacity:
Up 1.25Gbps / Down 2.5Gbps
 - Bidirectional Optical Sub Assembly (BOSA) type module
- Receiving optical sensitivity:
Better than -28dBm

GPON ONT

- ITU-T G.984 x compliant
- Forward Error Correction (FEC)
- Support Advanced Encryption Standard (AES)
- Multiple T-CONTs/GEM ports per device
- Flexible mapping between GEM port and T-CONT
- Support Single /Multiple T-CONT(s) mode
- 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
- MAC address learning with auto aging and filtering (Up to 64 MAC address)

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 with OMCI interface
- IEEE802.3x flow control
- LED indications for maintenance
- Web-based management

VLAN

- VLAN port filtering
- Destination address port filtering

Residential Gateway Unit Features (L3 Routing mode)

- PPPoE client: multiple clients per RGONT
 - Automatically initiating the session
 - Automatically keep alive
- DHCP server / client
- NAT and NAPT
- NAT session up to 16K
- DNS Relay server (DNS relay, DNS transparent)
- Port forwarding
- Integrated stateful packet inspection firewall with ACL

Physical Specifications

Mechanics

- Dimensions (W x H x D)
4.50 x 1.26 x 3.74 in (114 x 32 x 95 mm)

Environmental Conditions

- Operating temperature
23 to 113°F (-5 to 45°C)
- Operating humidity
5 to 95% (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

- POWER: ON / OFF
Power status
- PON: ON / Blinking / OFF,
ONT registration, optical power status
- ALARM: ON / Blinking / OFF,
Optical Signal status
- LAN: ON / Blinking / OFF,
LAN port link status,
Activity status

Ordering Information

Base Standard

H665

1-Port G-PON (Class B+, ITU-T G.984), 1-Port 10/100/1000Base-T

- PON MAC, Flash 128MB and SDRAM 128MB
- SC/APC Connector type
- Power Adaptor : Input 100~240VAC, Output 12V/0.5A
- HGU Mode
- Overseas specification

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