

H665



H665 Compact GPON ONT

The DZS H665 enables subscribers to enjoy multimedia services with DZS leading-edge GPON technology.

Features & Benefits

- + Supports 2.5Gbps/1.25Gbps (Downstream/Upstream) with integrated GPON WAN interface
- + One gigabit multi-rate 10/100/1000M Ethernet interface

The H665 optical network terminal is targeted for all subscribers requiring a single high-speed data interfaces in a small form-factor, extended temperature housing. Fully compliant with ITU-T G.984 standards, the H665 supports data rates of 1.25Gbps upstream and 2.5Gbps downstream. With DZS'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 DZS H665 includes one GPON uplink interface and one 10/100/1000Base-T port. The ONT supports high speed internet access service.

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Service Scenario for GPON

A GPON network consists of an Optical Line Termination (OLT) located at the Central Office and a set of residential Single-Family Unit (SFU) and Multi Dwelling Unit (MDU) locations with Optical Network Terminals (ONTs). Between them is the optical distribution network (ODN) comprised of fibers and passive optical splitters or couplers.

The H665 ONT supports 2.5G capable downlinks using the GPON standard. Services include High-Speed Internet (HSI).

Key Service Attributes

- + FSAN ITU-T G.984 GPON Class B+ compliant
- + One 10/100/1000MBase-T Ethernet port, RJ45 supporting 1Gbps symmetrical services
- + Traffic management including Q-in-Q tagging, 802.1Q VLANs
- + Multiple subscriber VLANs, per-port rate limiting
- + 802.1p priority bits, DiffServ and priority queues based on services types

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Product Specifications

Hardware

- + Dimensions
 - Width: 3.4" (87 mm)
 - Depth: 3.3" (85mm)
 - Height: 1.1" (28mm)
- + Weight 0.3 LB (0.14 kg)
- + 128MB Flash Memory
- + 64MB SDRAM
- + GPON Interface Capacity:
 - 2.5Gbps Down/1.25Gbps Up

Interfaces

- + WAN: 1 port G-PON (SC/APC)
- + LAN: 1 ports 10/100/1000 Base-TX Ethernet (RJ45)
- + Power: 1 2-pin barrel connector
- + Button: Power, RESET

GPON

- + Class B+ optics, 20km (12.4 miles), reach, max split 64
- + Maximum ODN Attenuation, +28 dB link budget
- + 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 Switch

- + Untagged port configuration
- + IEEE 802.1D and IEEE 802.1Q bridging
- + Standard Ethernet bridging
- + MAC Address learning with auto aging and filtering (Up to 64 MAC address)
- + Activation with automatic discovered serial Number and password
- + IGMP snooping
- + IGMP proxy
- + Dying Gasp

Multicast

- + IGMP snooping

VLAN

- + VLAN port filtering
- + Destination address port filtering

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

Environmental

- + Operating Temperature 23~122°F (-5~+50°C) Commercial
- + Storage temperature -4~149°F (-20~65°C)
- + Operating humidity 5 to 90% (non-condensing)
- + Altitude: -200 to 10,000 feet (-61 to 3,048 m) above sea level

Powering

- + DC power, +12 VDC nominal, 0.5
- + Input power, 90-240VAC, 50/60Hz
- + Power consumption, ~8W maximum

Management

- + ITU-T984.2 compliant OMCI interface
- + IEEE 802.3x flow control
- + LED indications for maintenance

Ordering Information

Bases	
H665	1x GPON (Class B+, ITU-T G.984.2) 1 x Ports 10/100/1000Base-TX Power Adaptor: Input 100~240VAC, Output 12V/0.5A
DPW-H665-NA	North America
DPW- H665-EU	EU
DPW- H665-UK	UK
DPW- H665-00	No power supply

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