Enabling the hyper-connected world

H660GM

H660GM GPON Gateway ONT with Wi-Fi

The DZS H660GM is a compact, high-performance, Wi-Fi enabled gateway functions as a standards-based GPON Optical Network Terminal (ONT)

Features & Benefits

- Supports the ITU-T G.984 standard
- Uplink interface with 2.5 Gbs downstream and 1.25 Gbs upstream
- 4 GbE LAN interfaces
- High-Speed WLAN (Wi-Fi) meeting IEEE802.11b/g/n/ac
- Supports IGMP snooping for IPTV applications
- Management via OMCI (ONT Management Control Interface)

In the hyper-connected world, the smart home and business are the interface to up to hundreds of connected devices – all competing for bandwidth and depending on reliable coverage. Sensational Wi-Fi coverage and throughput is a must, as is the ability to connect at gigabit speeds.

The H660GM was built for this world. It is a compact ONT that provides high reliability residential and business services in GPON networks. This ONT is ideal for all applications that require POTS and a multitude of Ethernet interfaces for gigabit Internet. Gamers, telecommuters, and casual users alike will appreciate its high performance and wireless coverage, supporting multimedia services such as real time video, audio and gaming.

H660GM

Key Interfaces

+ 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

Stellar Services

The H660GM supports high-speed Internet and telephony services in a compact, high-performance form factor. This indoor ONT uses the Session Initiation Protocol (SIP) to terminate VoIP calls – enabling in-home/in-building wiring to remain “as is” and existing analog telephones to continue to be used without interruption.

Extraordinary Flexibility

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PON Benefits

PON technology delivers world-class, cost-efficient FTTP services thanks to its point-to-multipoint architecture (the use of passive optical splitters with passive optical networks is optimized for exceptional cost-efficiency).

Management

All configuration of the H660GM ONT and the provided services are realized via the OMCI (ONT Management Control Interface).

Features, Protocols, Interfaces

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+ 4x Gigabit Ethernet ports (10/100/1000Base-T)
+ 1x analogue telephony (FXS)
+ Wireless LAN

Physical & Environmental Specifications

Mechanics	
Dimensions (W x H x D)	160mm x 210mm x 130mm
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)
Certifications	CE, UL, FCC ANATEL, BICSA, VCCI

Ordering Information

Bases	

Technical Specifications – Interfaces, Connectors, Management

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 passwort
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, 867Mbps in 802.11ac, 2x 2 MIMO
	Security: WEP with 64/128bit, 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

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