



H660EW

Product Guide

Overview

The H660EW optical network terminal is targeted for all subscribers requiring multiple high-speed data interfaces in a cost-effective indoor housing. Fully compliant with ITU-T G.984 standards, the H660EW 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 H660EW provides one GPON uplink port, one Gigabit Ethernet (10/100/1000Base-TX) port, three Fast Ethernet (10/100Base-TX) ports and Wireless LAN interface that enhance the ability to deliver demanding Wi-Fi services. The H660EW supports the full Triple Play of services including voice and high speed internet access service. The H660EW supports at least 30 PCs connected simultaneously via a switch connecting the LAN port side.

The H660EW 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.

Specifications

CAPABILITIES

System

- MIPS 900MHz Dual core CPU
- 128MB 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)
- OMCI channel encryption with variable lengths
- AES 128-bit encryption

- At least 8 T-CONTs/ 32 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 SLID
- Displays the SLID number without using ASCII code, but it displays the exact number
- Dying Gasp

L2/L3/L4

- IEEE 802.1D and IEEE 1Q
- IEEE 802.3 auto negotiate
- 4K source MAC address learning
- Unicast MAC address is learned by VLAN or basic interface
- 1 bridge group
- Address learning with auto aging
- Support 4K VLAN from 1 to 4094
- Jumbo Frame 2K
- L2 control protocol transparently transmitted with VLAN Stacking mode: STP, RSTP, MSTP, IGMP, OSPFv2, RIPv2, ARP, VRRPv2
- VLAN Filter
- L2/L3 Filter
- BPDU Filter
- VPN L2/L3 transmission in L2 bridge mode
- L3 VPN transmission in L3 route mote. Service terminated on
- Support IPv4 both software & hardware
- IPv6 transparent forwarding
- Static routing
- DHCP server / client
- DNS proxy
 - Auto/Manual
- NAT/NAPT/Port forwarding, DMZ

- NAT Loopback
- MCL, DDNS (No-IP, DynDNS), UPnP Port mapping, ALG
- Customize DDNS dynamic domain name to use for IP camera services retrieved through domain
- Capable of performing domain name access from the
- NTP
- IPoE
- PPPoE client
 - Automatically initiating the session
 - Automatically keep alive
- VLAN based PPPoE/IPoE
- Up to 5 VPN sessions concurrent. (transparent)
- Internet & L2 VPN throughput: at least 200Mbps full duplex
- L3 VPN throughput at least 90Mbps Full duplex
- NAT concurrent session: 8K inside session
- 8K outside session

Multicast

- IGMP v1/v2
- IGMP snooping
- IGMP proxy
- Provision of IPTV services in bridge mode (L2) and router mode (L3)

Quality of Service

- HW-based internal IEEE 802.1p (CoS)
- Strict Priority (SP)
- 1Q (VLAN tag) QoS mapping, ToS/CoS

Management

- ITU_T 984.4 compliant OMCI interface
- 3x flow control
- LED indications for maintenance

- Web-based management
- Remote configuration via HTTP/Telnet/SSH. Disable remote access by
- ONT service provisioning
- Compliant TR-69, TR-142, TR255
- Ready to connect management system by
- Configure all parameters on WebGUI remotely via centralized management system
- Support Ping, Trace route
- Dual firmware
- Store and restore old firmware versions after upgrading new versions.
- Support backup/restore configuration, firmware upgrade remotely
- Do not lose configuration when power off and when the power supply is unstable
- Support log file
- Tx/Rx power display on device
- Maximum 6 minutes' service interruption during the upgrade process
- Access WEBGUI configuration on a variety of Smartphones

Wireless LAN

- 11b/g/n compliant
- Support 4
- Support each SSID serve for 1 separate service
- Up to 25 devices can accessed simultaneously
- MAC based access control
- 64/128bit wireless encryption protocol (WEP)
- Bandwidth: 2.4GHz
- Two Transmit and Two Receive path (2T2R)
- 2×2 MIMO
- data rate: 54Mbps in 802.11g
- data rate: 300 Mbps with 40MHz channel in 802.11n
- Two-stream spatial multiplexing
- Supports 20 MHz and 40 MHz channels
- Security: WEP, WPA-PSK (TKIP) & WPA2-PSK (AES)
- Wi-Fi enable/disable

- Support broadcast hidden SSID
- Split traffic on SSIDs
- Wifi client statistic
- Support WPS (Wi-Fi Protected Setup): PIN (Personal Identification Number) & PBC (Push Button Configuration)
- Wifi stations accessing services via wifi are not affected by other stations with RSSI \leq -80dBm.

Security

- Support SPI firewall
- Prevent: DOS/DDOS attack
- Disable Web management on WAN by default
- URL filtering, IP filtering
- Do not allow storing and executing strange code automatically.

PHYSICAL SPECIFICATIONS

Mechanics

- Dimensions (W x H x D)
6.30 x 2.14 x 5.12 in – (Antennas folded)
(160 x 54.30 x 130 mm)

Operating temperature 23 to 122°F (-5 to 50°C) Environmental Conditions

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

Power Voltage (AC/DC Adapter)

- Switching power adapter
- Input: 100-240VAC, 47 ~ 63 Hz
- Output: 12VDC
- Nominal Power: 6W

- Power efficiency $\geq 80\%$
- Limited input current: 2A
- Maximum inrush current: 30A
- ONT nominal load current: 150mA
- Protect from overvoltage input: $\geq 2\text{KA}@8\mu\text{s}/20\mu\text{s}$.
- Output voltage limit $\leq 5\%$ of nominal voltage
- Ripple voltage and output noise: $\leq \pm 1\%$ Nominal Voltage
- Over voltage when power off: $\leq 110\%$ Nominal Voltage
- Nominal output current greater than 3.3 times the average load current
- Overcurrent resistant: $\geq 150\%$ of nominal load current, output voltage in overcurrent protection mode $\leq 20\%$ of nominal output voltage
- Overcurrent protection, output short circuit: Adapter will stop working when operating in overcurrent protection, short circuit and resume operation when the output is no longer overcurrent or short circuit.
- Insulation between input (AC) and output (DC): $\geq 1.5\text{kV}$, leakage current $< 5\text{mA}$
- Insulation resistance between input (AC) and output (DC): $\geq 10\text{ M}\Omega$
- AC power plug: 2-pin round type
- DC power connector 5.5mm x 1mm
- DC power cable: Flexible double copper wire length $\geq 1.5\text{ m}$, cross-section copper conductor suitable for rated power ($\leq 6\text{A} / \text{mm}^2$)
- IEC 60950 safety
- Not affect the device when the power is turned on and off
- Operating temperature: 0 to 40°C
- Operating humidity: 20-85% RH

Interface Parameter

- GPON i/f
1 GPON port (SC/APC type)
- Ethernet i/f
1 10/100/1000Base-TX ports (RJ45)

When operating with UTP Cat-5e/6 copper cable the distance reaches 100 meters. 3 10/100Base-TX ports (RJ45)

When operating with UTP Cat-5 copper cable the distance reaches 100 meters.

- Wireless LAN

IEEE802.11b/g/n compliant Dual MIMO antenna, 5dBi gain

TX power \geq -18 dBm (Measured at the antenna front)

Ordering Information

Contact

For more information, connect with us at dazanzhone.com/contact