

## GPON Gigabit ONT



H645G is Optical Network Terminal (ONT) compliant with ITU-T G.984 standard. DASAN Networks has developed H645G 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 H645G is comprised of one GPON uplink and Gigabit Ethernet downlink 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 H645G utilizes technology for intelligent IP-based access allowing reliability of network deployment models and management system.

### GPON Interface

- ITU-T G.984.2 compliant GPON ONT
- Data rate of 1.25Gbps/2.5Gbps (US/DS)
- Wavelength: TX 1310nm, RX 1490nm

### Advanced QoS & Network Management

- Protection of delay-sensitive traffic based on SLA
- L2/L3/L4 filtering
- Remote fault monitoring
- IEEE 802.1D and IEEE 802.1Q bridging
- Dying Gasp support

## Specifications

Flash Memory	128MB NAND
SDRAM	128MB
Service Port	1 10/100/1000Base-T port (RJ45)
Uplink Port	1 GPON port (1000Base-PX20-U) (2x10 SC/APC, SFF)
LED	PWR, PON, LOS, LAN

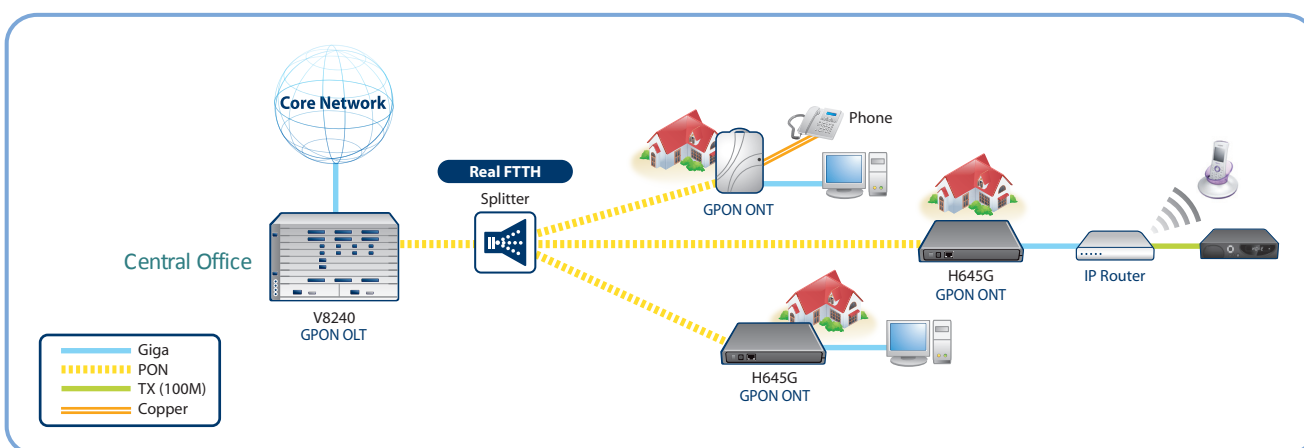
Operating Temp.	32 to 122°F (0 to 50°C)
Operating Humidity	0 to 90% (non-condensing)
Power Voltage (adapter)	Input: 100-240VAC, 50/60Hz Output: 12VDC/0.5A
Power Consumption	Max. 3.6W
Dimensions (W x H x D)	4.80 x 1.09 x 3.93 in (122 x 27.9 x 100 mm)

## Capabilities

GPON Interface	<ul style="list-style-type: none"> <li>• ITU-T G.984.2 compliant</li> <li>• Forward Error Correction (FEC)</li> <li>• Multiple T-CONTs per device</li> <li>• GEM port</li> </ul>
Layer 2	<ul style="list-style-type: none"> <li>• Untagged Port configuration</li> <li>• Standard Ethernet bridging</li> <li>• Spanning tree protocol</li> <li>• Address learning with auto aging</li> <li>• IEEE 802.1D and IEEE 802.1Q bridging</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• IGMP snooping</li> </ul>

VLAN	<ul style="list-style-type: none"> <li>• VLAN port filtering</li> <li>• Destination address port filtering</li> <li>• Source MAC address learning</li> </ul>
Management	<ul style="list-style-type: none"> <li>• ITU-T 984.4 compliant OMCI interface</li> <li>• IEEE 802.3x flow control</li> <li>• LED indications for maintenance</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• HW-based internal IEEE 802.1p (CoS)</li> <li>• Strict Priority (SP)</li> <li>• 802.1Q (VLAN tag) QoS mapping, ToS/CoS</li> <li>• 4 queues per port</li> </ul>

## Sample Configuration



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