

# H690/H690R

Outdoor G-PON ONT





Dasan Networks has fast become a global leader in delivering high-speed network and access solutions around the world. Dasan Networks proudly provides industry-leading metro, access and customer premise solutions that enable high-speed data, voice, video, and wireless service delivery over existing and emerging fiber and copper networks.

Dasan Networks' complete family of ONTs and customer premise devices offer the network operator a choice of access technologies (G-PON, E-PON, Active Ethernet, xDSL) to customers with next generation services to add subscribers and increase revenue.

H690/H690R is an environmentally hardened outdoor Optical Network Terminal (ONT) compliant with ITU-T G.984 standards (G-PON). Dasan Networks has developed H690/H690R for subscribers requiring a very costeffective triple-play ONT. Fully compliant with ITU-T G.984 GPON standards, the H690/H690R supports 1.25Gbps downstream and 2.5Gbps upstream. The H690/H690R allows subscribers to enjoy bandwidth-intensive multimedia services such as real-time video, audio and gaming, much easier and faster than ever before.

The H690/H690R is comprised of one G-PON uplink port plus four Gigabit Ethernet (10/100/1000Base-T), two POTS (FXS) ports that enhance the ability to deliver demanding VoIP services, and an RF video interface (only on H690R). The H690/H690R uses Session Initiation Protocal (SIP) to terminate phone calls so that in-home wiring does not change and standard telephone sets may be used.

H690/H690R utilizes technology for intelligent IP-based access allowing reliable network deployment models and management.

Purchase from: www.

### **G-PON** Interface

- ITU-T G.984 Class B+ compliant
- 1.25Gbps Upstream/2.5Gbps Downstream
- Wavelength: TX 1310nm, RX 1490nm

## Advanced QoS & Network Management

- SLA based protection of delay sensitive traffic
- L2/L3/L4 Filtering
- Remote Fault Monitoring Function
- IEEE 802.1D and IEEE 802.1Q bridging

## POTS Line Interface

- SIP RFC3261/3262/3263/3264
- DTMF dialing
- Multiple Codec: G.711, G723.1, G729
- T.38 FAX mode
- Supports echo cancellation

www.multicominc.com 800-423-2594

# Specification

Flash Memory 8MB **SDRAM** 64MB

4 port 10/100/1000Base-T (RJ45) Service Port

2 port POTS interface (RJ11)

**Uplink Port** 1 port G-PON (SC/APC type)

RF Video interface 1 port F-connector

(only on H690R) - Analog RF video over dedicated 1550nm wavelength

- Triplexer (three wavelength GPON optical transceiver)

Operating Temp. -40 ~ 149 °F (-40 ~ 65 °C) -40 ~ 185 °F (-40 ~ 85 °C) Storage Temp. **Operating Humidity** 0 to 90 % (non-condensing)

Power Voltage Input: 100-240VAC, 50/60Hz (adapter) Output: DC 12V, 1.5A

4 queues per port

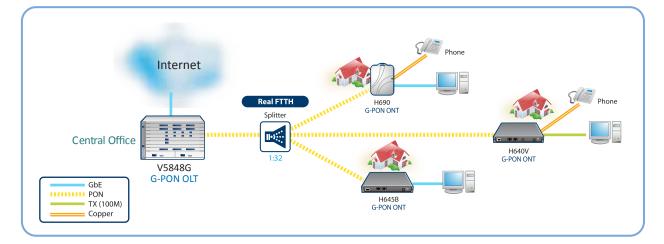
Dimensions (W x H x D) 9.9 x 12.7 x 3.8 in (251 x 323 x 97 mm)

**Regulatory Compliance** UL, FCC Part 15

# Functionality

5-REN ITU-T G.984 compliant Forward Error Correction (FEC) Balanced ring, 55V RMS **G-PON Features** Multiple T-CONTs per device DTMF dialing Support for multicast GEM port Multiple codec: G.711, G729, G723.1 **POTS Features** SIP (RFC3261), SDP (RFC2327), Untagged port configuration RTP (RFC3550/3551) Standard ethernet bridging Echo cancellation L2 Features Spanning tree protocol T.38 FAX mode IEEE 802.1D and IEEE 802.1Q switching/bridging **GR 303** Address learning with auto aging ITU-T G.984.4 OMCI interface Multicast **IGMP** snooping All Service Provisioning (Ethernet, VoIP, etc.) HW-based internal IEEE 802.1P (CoS) Management IEEE 802.3x flow control Strict Priority (SP) LED indications for maintenance OoS 802.1Q (VLAN tag) QoS mapping, ToS/CoS Telnet / SNMP/ TR069 (Protocol Stack)

### • Sample Configuration



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