


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 cost-effective 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 Protocol (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.

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

Purchase from:  www.multicominc.com 800-423-2594

• Specification

Flash Memory	8MB
SDRAM	64MB
Service Port	4 port 10/100/1000Base-T (RJ45) 2 port POTS interface (RJ11)
Uplink Port	1 port G-PON (SC/APC type)
RF Video interface (only on H690R)	1 port F-connector - Analog RF video over dedicated 1550nm wavelength - Triplexer (three wavelength GPON optical transceiver)
Operating Temp.	-40 ~ 149 °F (-40 ~ 65 °C)
Storage Temp.	-40 ~ 185 °F (-40 ~ 85 °C)
Operating Humidity	0 to 90 % (non-condensing)
Power Voltage (adapter)	Input : 100-240VAC, 50/60Hz Output : DC 12V, 1.5A
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

G-PON Features	ITU-T G.984 compliant Forward Error Correction (FEC) Multiple T-CONTs per device Support for multicast GEM port	POTS Features	5-REN Balanced ring, 55V RMS DTMF dialing Multiple codec: G.711, G729, G723.1 SIP (RFC3261), SDP (RFC2327), RTP (RFC3550/3551) Echo cancellation T.38 FAX mode GR 303
L2 Features	Untagged port configuration Standard ethernet bridging Spanning tree protocol IEEE 802.1D and IEEE 802.1Q switching/bridging Address learning with auto aging	Management	ITU-T G.984.4 OMCI interface All Service Provisioning (Ethernet, VoIP, etc.) IEEE 802.3x flow control LED indications for maintenance Telnet / SNMP/ TR069 (Protocol Stack)
Multicast	IGMP snooping		
QoS	HW-based internal IEEE 802.1P (CoS) Strict Priority (SP) 802.1Q (VLAN tag) QoS mapping, ToS/CoS 4 queues per port		

• Sample Configuration

