



GPON ONT-SFU

CPE Solution

Description

Targeted to PON FTTH deployment scenarios, the GPON ONT-SFU equipment family is the right choice for Operators and Service Providers that want to deliver multi-play services to business and residential customers. The architecture of these devices is based on the ITU-T G.984.x recommendations, enabling services such as High-Speed Internet, VoIP, IPTV, and RFTV via standard interfaces.

These ONT-SFUs are fully interoperable with 3rd party OLTs. The devices can be remotely managed and configured, allowing operators to optimize OPEX and scale-up deployments by featuring auto-provisioning mechanisms (OMCI).



Business Benefits

- Compact, high-speed, and low-power consumption devices for businesses;
- Multi-play services;
- BBF.247 (multi-vendor OLT interoperability);
- Mass remote management through OMCI (G.984.4 and G.988), thus offering full remote control without user intervention.



GS0100G



GS0110G



GS1000G



GS1100G

Model	Ports						
	FXS	Ethernet	RF	PON			
		1GE		Type	Class	Bit rate (Gbps)	Wavelength (nm)
GS0100G	-	1x	-	GPON	B+, C+,D	DS: 2,488 US: 1,244	DS:1480-1500 US:1260-1360
GS0110G	-	1x	1x				
GS1000G	1x	-	-				
GS1100G	1x	1x	-				

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Specifications

WAN Uplink Interfaces	G.984 GPON (SC/APC)
GPON layer per G.984.x	Downstream/Upstream bitrates: 2.5/1.2 Gbps (GPON); Advanced Encryption Standard (AES); Forward Error Correction (FEC).
L2 layer	VLAN-ID to GEM port-ID mapping (per WT-156): -N:1 VLAN. -1:1. Transparent VLAN; Classification: DSCP/TOS, 802.1p TCI, VLAN-ID, MAC address; 802.1q VLAN processing: Q-in-Q, tagging, removing tag, replacing tag or transparent forwarding; Performance: 1000 Mbps bidirectional.
IPTV	IGMP v2/v3, and MLD (IPv6) snooping and proxy; IGMP processing per VLAN ID to support group of channels; Interactive services (Video On Demand); IPTV streams forwarding simultaneous :128; IPTV prioritization using Quality of Service (QoS): 802.1p.
LAN Ethernet interfaces	RJ-45 10/100/1000Base-T; Auto-negotiation support; Auto MDI/MDIX support.
RF Overlay	1 port on an F Connector; 75 Ohm impedance (nominal); Optical wavelength: 1550 nm; Optical power: -8 dBm < Pin < +2 dBm; Analog bandwidth: minimum 47 MHz and maximum 870 MHz, 1002 MHz or 2150 MHz
VoIP	Call control: SIPv1/v2; T.38 Fax relay; Fax/Data bypass; Echo canceller; Echo canceller length; Jitter buffer; Caller ID generation; G.711 PCMU; G.711 PCMA; G.723.1; G.726; G.729; Caller ID and call waiting; RTP/RTCP packet encapsulation; RFC 2833 Support; In-band signaling detection and generation (DTMF, call progress tones).
POTS	RJ-11 FXS port
Management	Remote management through OMCI, PLOAM and OAM; Secure software download upgrade via OMCI; G.988 compliant.
EMC	ETSI EN 300 386
Safety	IEC/EN 60950-1; UL 60950-1
Laser	IEC/EN 60825-1:2014
Energy Efficiency	European Code of Conduct on Energy Consumption of Broadband Equipment V8 Energy Star - Small Network Equipment v1.0
Environment	Temperature Range: -5°C to +45°C Relative Humidity: 5% to 95%
Equipment Size (HxWxD)	35 x 143 x 103mm / 1.4 x 5.6 x 4.1"
Net Weight	158g / 0.35lb
Power Supply ⁽¹⁾	Primary: 230VAC, 50Hz or 110VAC, 60Hz; Secondary: 12VDC/1A ± 15%

⁽¹⁾ An LPS power source is used to power the ONT equipment:

- US/Canada: The ONT must be powered by an external Listed Limited Power Source (LPS) or Class 2 Power source. The external power adapter must be LPS certified.
- Rest of the World: The ONT must be powered by an External CB approved Limited Power Source (LPS).