

GPON ONT-SFU

CPE Solution

Description

Targeted to the PON FTTH deployment scenario, this compact Multiplay GPON ONT-SFU equipment family models are the right choice for Operators and Service Providers who are willing to deliver multiple and advanced services to residential clients.

GPON ONT-SFU family equipment support multiplay services and are based on ITU-T rec. G.984 (GPON) standards, enabling services as High Speed Internet (HSI), voice (VoIP), IPTV and RFTV (in Overlay) via standard interfaces.

Business Benefits

- Compact, high speed and low consumption GPON FTTH ONT-SFU for residential clients;
- Multiplay service enabler;
- BBF.247 Certified (multi-vendor OLT interoperability enabled);
- Mass remote management through OMCI (G.984.4 and G.988), thus offering a full remote control without user intervention.



Model	Ports						
	FXS	Ethernet	RF	PON			
				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	
GPON layer per G.984.x	Downstream/Upstream bit rate: 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	RJ45 10/100/1000 BASE-T; Support auto-negotiation; Support auto MDI/MDIX	
RF Overlay	1 port on a 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 over the 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 V7 Energy Star - Small Network Equipments v1.0	
Environment	-5 °C to +45 °C, 5 - 95% Relative Humidity	
Equipment Size (HxWxD)	35 x 143 x 103.5 mm / 1.4" x 5.6" x 4.1"	
Net Weight	0.7 Kg / 1.5 lb	
Power Supply ⁽¹⁾	Primary: 230 V AC, 50Hz or 110 V AC, 60 Hz; Secondary: 12 V DC/1 A + 15%.	Comply with CoC V6 or CEC Level VI

⁽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).