

# XGS-PON ONT-SFU

10G CPE Solution

## Description

Targeted to the PON FTTH deployment scenario, compact Multiplay XGS-PON ONT-SFU family equipment support High Speed Internet and IPTV services, being the right choice for Operators and Service Providers who are willing to deliver multiple and advanced services to residential clients.

XGS-PON ONT-SFU architecture based on the Rec. ITU G.9807.1 supports full in-house multi-play services enabling Data and Video services through Ethernet interfaces. XGS-PON ONT-SFU family models built-in Ethernet LAN ports, one 10GE BASE-X/T LAN port and at least one 2.5GE BASE-T port support ultrafast device connection, for Internet application such as video, email, web surfing, files upload/download and online gaming.

Altice Labs XGS-PON ONT-SFU family equipment is straightforward and remotely managed/configured allowing for the optimization of Operators OPEX and the scale up deployment by starring OMCI auto provisioning mechanism.

## Business Benefits

- Compact, high speed and low consumption XGS-PON FTTH ONT-SFU for residential clients;
- Multiplay services enabled including data High Speed Internet and IPTV;
- Evolution of the broadband access paradigm up to 10Gbps/10Gbps (downstream/upstream) data rates;
- Mass remote management through OMCI (G.988) standard, thus offering a full remote control without user intervention.



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Product		LAN Ports			WAN Ports			
Model	Description	Ethernet			PON			
		2.5GBASE-T	10GBASE-T	10G SFP+	Type	Class	Bit rate (Gbps)	Wavelength (nm)
XSS0200I	SFU-XGS-2G5-10G-SFP	1x	-	1x	XGS-PON	B+, C+, D	DS: 9.95328 US: 9.95328	DS: 1575-1580 US: 1260-1280
XSS0100K	SFU-XGS-10G	-	1x		XGS-PON	B+, C+, D	DS: 9.95328 US: 9.95328	DS: 1575-1580 US: 1260-1280

## Technical Specifications

<b>WAN Uplink Interfaces</b>	ITU-T G.989.1/2/3 (XGS-PON) and G.988 compliant.
<b>10G PON layer</b>	ITU-T G.987.x (XG-PON); ITU-T G.9807.1 (XGS-PON); ITU-T G.988; Configurable AES (Downstream) and FEC (Downstream and Upstream); Bitrates: Downstream - 9.95328 Gbps, / Upstream - 2.48832 Gbit/s(XG-PON)   9.95328 Gbps (XGS-PON); Optics Classes(XG-PON XGS-PON): E1, N2, N2a   N1, N2, E1, DD20.
<b>IPTV</b>	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.
<b>Management</b>	Remote management over the OMCI, PLOAM and OAM ; Secure software download upgrade via OMCI; G.988 compliant.
<b>LAN Ethernet interfaces</b>	RJ45 GE/2.5GE BASE-T; RJ45 GE/2.5GE/10GE BASE-T or SFP/SFP+ GE/2.5GE/10GE BASE-X/-T (model dependent); Support auto-negotiation; Support auto MDI/MDIX.
<b>Energy Efficiency</b>	European Code of Conduct on Energy Consumption of Broadband Equipment V8 Energy Star - Small Network Equipments v1.0
<b>Environment</b>	-5 °C to +45 °C, 5 - 95% Relative Humidity.
<b>EMC</b>	EN 300 386, IEC CISPR32, EN 55032 (Class B); IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-4-2, IEC/EN 61000-4-3; IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-11; FCC CFR 47 Part 15 Subpart B Section 15.107 – Conducted Emissions (Class B); FCC CFR 47 Part 15 Subpart B Section 15.109 – Radiated Emissions (Class B).
<b>Safety</b>	IEC/EN 62368-1 / UL 62368-1
<b>Laser</b>	IEC/EN 60825-1:2014
<b>Equipment Size (HxWxD)</b>	(38.8 x 170.0 x 140.0) mm / (1.5 x 6.7 x 5.5)
<b>Net Weight</b>	0.315 Kg / 0.694 lb
<b>Power Supply <sup>(1)</sup></b>	Primary: 230 V AC, 50Hz or 110 V AC, 60 Hz; Secondary: 12 V DC/1 A + 15%.

<sup>(1)</sup> 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).