

XGS-PON ONT-SFU

10G CPE Solution

Description

Targeted to PON FTTH deployment scenarios, this compact multi-play XGS-PON ONT-SFU equipment family supports High-Speed Internet (HSI) and IPTV services, being the right choice for Operators and Service Providers that want to deliver multiple and advanced services to residential clients.

The architecture of these devices is based on the ITU G.9807.1 recommendation and supports full in-house multi-play services, enabling Data, Voice, and Video services through Ethernet interfaces. The XGS-PON ONT-SFU models feature built-in Ethernet LAN ports.

These ONTs 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 OMCI auto-provisioning mechanisms.

Business Benefits

- Compact, high-speed, and low-power consumption devices for residential customers;
- Multi-play services, 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 the OMCI (G.988) standard, thus offering full remote control without user intervention.



XSS0200I



XSS0200J



XSS2100K



XSS0100K



XSS0100K

XGS-PON ONT-SFU

Product		LAN Ports		WAN Ports		FXS Ports
Model	Description	Ethernet		PON		
		LAN1 (10GBASE-X/-T)	LAN2 (GE/2.5GE BASE-T)	Type	Class	
XSS0200I	SFU-XGS-2G5-10G-SFP	1x SFP+cage (10GBASE-X)	1x	XGS-PON	B+, C+, D	-
XSS0200J	SFU-XGS-2G5-10G	1x RJ45 port (10GBASE-T)	1x	XGS-PON	B+, C+, D	-
XSS2100K	SFU-XGS-10G-2FXS	1xRJ45 port (10GBASE-T)	-	XGS-PON	B+, C+, D	2x(RJ11)
XSS0100K	SFU-10G	1x RJ45 port (10GBASE-T)	-	XGS-PON	B+, C+, D	-

Technical Specifications

10G PON layer	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.
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.
VoIP Specifications	Call control: SIPv1/v2; T.38 Fax relay; Fax/Data bypass; Echo canceller; Echo canceller length; Jitter buer; Caller ID generation; G.711 PCMU; G.711 PCMA; G.723.1; G.726; G.729; VAD and CNG; Caller ID and call waiting; RTP/RTCP packet encapsulation; RFC 2833 Support; In-band signaling detection and generation (DTMF, call progress tones); Automatic Tone generation (dial, busy, ring back, stutter, distinctive ring); 3-Way conferencing.
Management	Remote management through OMCI, PLOAM and OAM; Secure software download upgrade via OMCI; G.988 compliant.
LAN Ethernet interfaces	RJ-45 GE/2.5GE BASE-T; RJ-45 GE/2.5GE/10GE BASE-T or SFP/SFP+GE/2.5GE/10GE SFP/SFP+ BASE-X/-T; Auto-negotiation support; Auto MDI/MDIX support.
POTS	RJ-11 FXS ports
Energy Efficiency	European Code of Conduct on Energy Consumption of Broadband Equipment V9 Energy Star - Small Network Equipment v1.0
Environment	Temperature Range: -5°C to +45°C Relative Humidity: 5% to 95%
EMC	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).
Safety	IEC/EN 62368-1 / UL 62368-1
Laser	IEC/EN 60825-1:2014
Equipment Size (HxWxD)	XSS0200I, XSS0200J, XSS0100K: (40 x 210 x 210) mm / (1.6 x 8.3 x 8.3)"; XSS2100K, XSS0100K: (38.8 x 170.0 x 140.0) mm / (1.5 x 6.7 x 5.5)"
Net Weight	XSS0200I, XSS0200J, XSS0100K: 0.483 kg / 1.06lb; XSS2100K, XSS0100K: 0.315 kg / 0.694lb
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).



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All specifications subject to change without notice
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