XSS0100KP
XGS-PON ONT-SFU

10G CPE Solution

Description

Targeted to PON FTTH deployment scenarios, this compact multi-play XGS-PON ONT-SFU equipment 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 this device 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 model features a built-in 1/2.5/5/10GBase-T Ethernet LAN port.

This ONT is fully interoperable with 3rd party OLTs. The device can be remotely managed and config-ured, allowing operators to optimize OPEX and scale-up deployments by featuring OMCI auto-provisioning mechanisms.

Business Benefits

- Compact, high-speed, and low-power consumption device 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.

XGS-PON ONT-**SFU**

Product	LAN Ports	WAN Ports			
		PON			
Model	Ethernet	Type	Class	Bit rate (Gbps)	Wavelength (nm)
XSS0100KP	1/2.5/5/10GBase-T	XGS-PON	B+, C+, D	DS: 9.95328 US: 9.95328	DS: 1575-1580 US: 1260-1280

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.
Management	Remote management through OMCI, PLOAM and OAM; Secure software download upgrade via OMCI; G.988 compliant.
LAN Ethernet interfaces	RJ-45 1/2.5/5/10GBase-T; Auto-negotiation support; Auto MDI/MDIX support.
Energy Efficiency	European Code of Conduct on Energy Consumption of Broadband Equipment V8 Energy Star - Small Network Equipment v1.0
Environment	Temperature Range: -5ºC to +45ºC 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)	27 x 102 x 102mm / 1.1 x 4.0 x 4.0"
Net Weight	0.131Kg / 0.289 lb
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).