



XGSPON 10G SPF+ ONT

ZARAM XGSPON STICK



ZARAM XGSPON STICK is a 10-Gigabit-capable Symmetric Passive Optical Network (XGSPON) Stick type ONT in a compact SFP+ package. The XGSPON Stick provides a pluggable XGSPON interface for FTTx and wireless backhaul applications with a compact size and lower power consumptions.

By being plugged into the L2/L3 switch or CPE with standard SFP+ uplink port directly, the XGSPON Stick provides a 9.95Gbps Upstream/downstream data link over a single fiber.

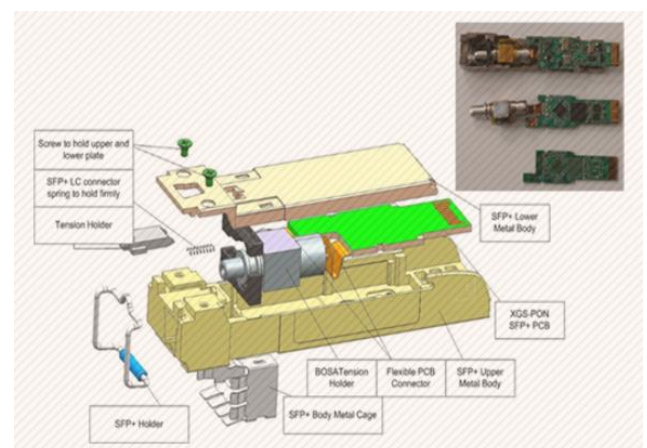
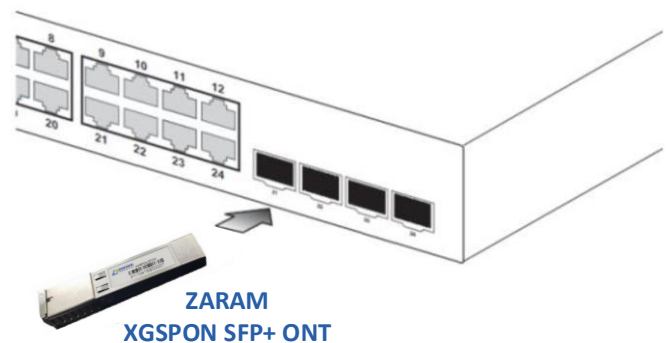
Any standard Ethernet SFP+ switch port can simply convert to a XGSPON ONT port and interconnect to an existing XGSPON network with the insertion of the module. It is built in compliance with ITU-T G.9807.1 specifications, an industry standard which defines XGSPON access networks.

XGSPON Features

- Complete XGSPON ONT functionality in a compact SFP+ package
- ITU-T G.9807.1 compliant XGSPON ONT
- Data rate of 9.95328 Gbps (US/DS)
- Managed by OLT over XGSPON via G.988 OMCI channel

Product Features

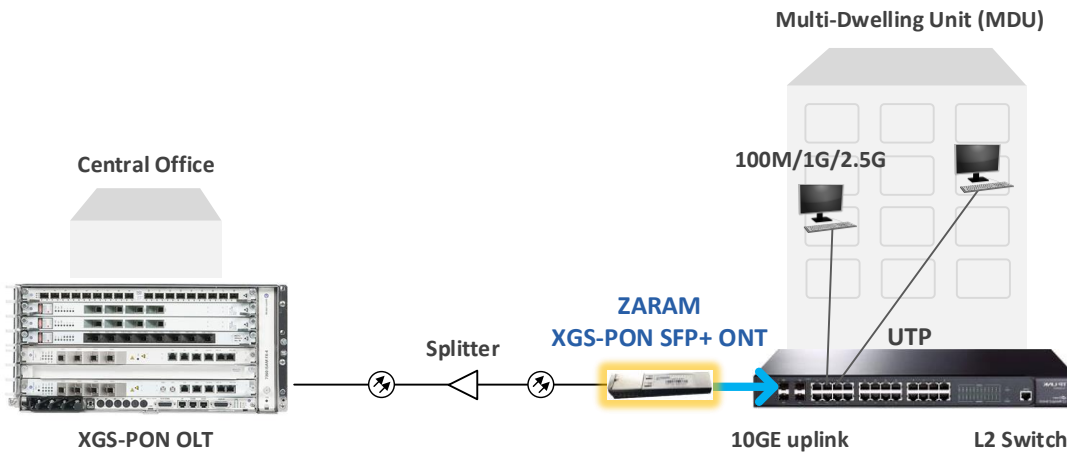
- Supports many new applications, including FTTx and small-cell backhaul services
- No separate power supply and cables
- Low power consumption
- Designed to inter-operate with other L2/L3 switch with SFP+ type uplink port





FTTB + LAN: MDU ONU 5G Small Cell (Femto) Backhaul Enterprise Passive Optical LAN

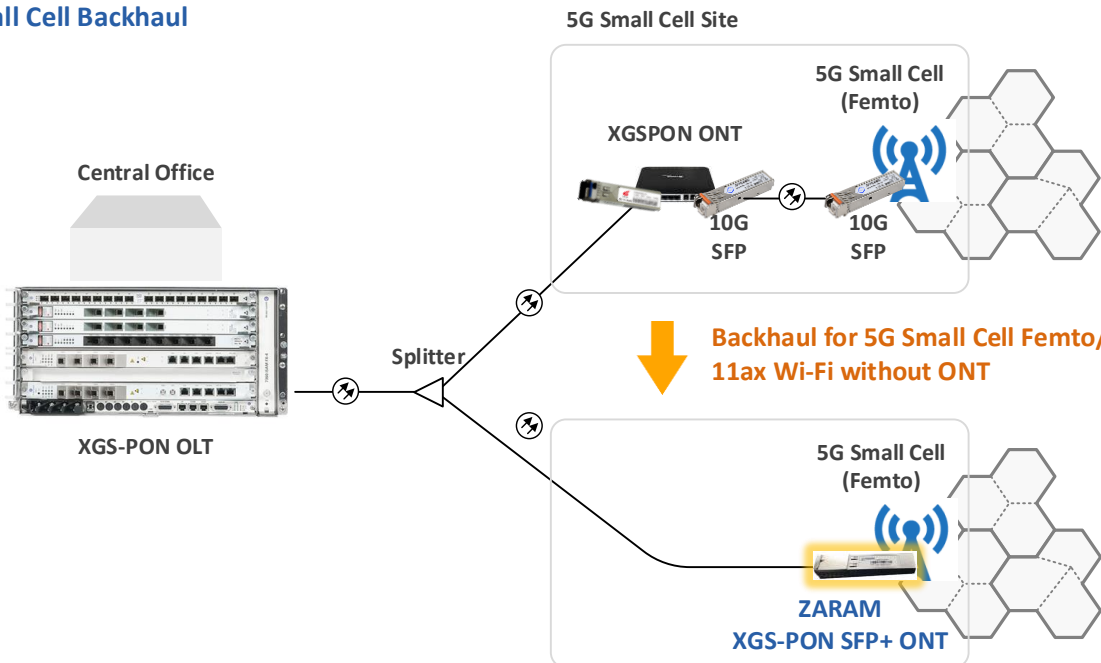
FTTB + LAN: MDU ONU



Enabling to use a general L2 switch in PON network

When The ONT stick is applied to the uplink port of the general L2 switch, the PON access network can be constructed without the OLT provided by the PON vendor.

5G Small Cell Backhaul



If ONT stick is applied to uplink of 5G small cell which requires a maximum speed of 2Gbps or more per cell in future, addition of ONT to the cell site is unnecessary, which reduces the cost of building a cell site.

Enterprise Passive Optical LAN

Specification



Hardware	
Main Chip	ZARAM ASIC (ZX100)
Flash Memory	16 MBytes
Memory	Embedded 512Mbit, DDR2 SDRAM
Capacity	XGPON : 9.95328 Gbps (US/DS)
Uplink Interface	10 GPON port (SC/PC, SFP+ compliant interface)
Service Interface	1 port SFI (10G) : SerDes/SFP+ compliant interface
Environment Conditions	
Input Power	Single 3.3V Power supply
Power Consumption	Max 1.98W
Operating Temperature/Humidity	-40°C~ 85°C / 0 ~ 95% non-condensing
Storage Temperature	-40°C~ 85°C
Product Standards	
Type	XGSPON ONT in SFP MSA Footprint
MAC	Integrated XGSPON ITU-T G.9807.1 MAC
Standards	<p>ITU-T G.9807.1-compliant XGSPON TC sublayer</p> <p>Complies with ITU-T G.988 OMCI</p> <p>9.95328Gbps, 1260-1280nm Burst Mode Transmitter</p> <p>9.95328Gbps, 1575-1580nm Continuous Mode Receiver</p> <p>Meets MSA specification of 1.98W max. supply</p> <p>Typical Power Consumption ~ 1.4W</p> <p>SFI interface operating at 10 Gbps</p> <p>Digital diagnostic monitor interface compatible with SFF-8472</p> <p>Compliant with sfp+ MSA, INF-8074i</p>
Software	
Layer 2	<p>Untagged port configuration</p> <p>Supports IEEE 802.1D compliant bridging/learning /filtering</p> <p>Supports IEEE 802.1Q VLAN aware/unaware bridging</p> <p>Standard Ethernet bridging</p> <p>MAC address learning with auto aging (Up to 1K MAC addresses)</p>
VLAN	<p>VLAN processing according to IEEE 802.1Q, BBF TR-156 and G.988</p> <p>Supports VLAN tag insertion, removal, translation</p> <p>Up to 128 Extended VLAN tagging instances</p> <p>Up to 1024 VLAN filter rules</p> <p>VLAN filtering according to VLAN Tagging Filter Data ME</p>
Multicast	<p>Performs IGMP transparent snooping as defined in IGMPv2/MLDv1 and IGMPv3/MLDv2</p> <p>L2 and L3 multicast filtering as defined in BBF TR-156 and G.988</p> <p>L2 and L3 multicast filter table with 1K entries.</p>
QoS	<p>Supports IEEE 802.1p QoS/CoS model</p> <p>Supports QoS related Traffic Classification (DSCP, PCP, DEI)</p> <p>Supports Traffic Scheduling combined WFQ and SP</p> <p>Supports Traffic Shaping range from 20 kbit/s up to 1 Gbit/s</p> <p>Supports 8 queues per port</p>
OAM	<p>Standard compliant OMCI interface</p> <p>ITU-T G.988 and G.9807.1</p> <p>Alarming and AVC report</p>

Contact Information

2nd Fl. FineVenture Bldg. 345-1, Yatap-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 13496, Korea

Web: www.zaram.com

Tel: +82-31-779-6700, 779-6701

Fax +82-31-779-6799

Joon Hyun Baek, CEO

Email : john@zaram.com

Tel : +82-31-779-6777

Fax : +82-31-779-6799

Seo In Shik, President

Email : inshiks@zaram.com

Tel : +82-31-779-6700

Fax : +82-31-779-6799