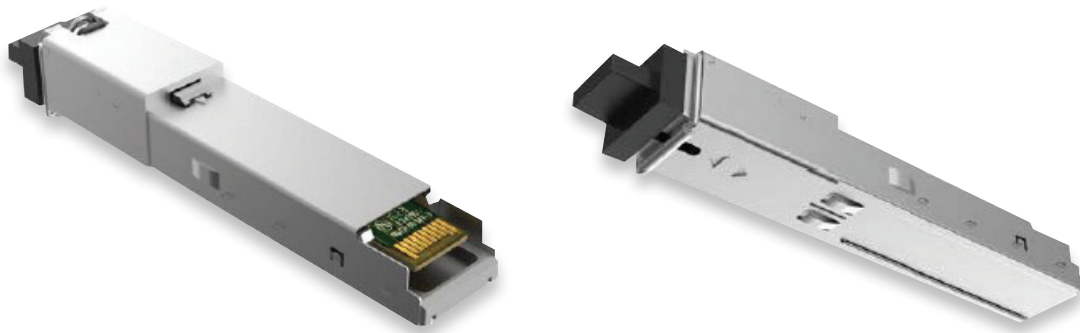


openONU-Plugin



Overview

To extend the 10GPON deployment in existing access network for business and residential subscribers, XGS PON ONU SFP XG-99S is a standard SFP+ form factor, which can easily replace the Ethernet SFP+ module existing in Ethernet gateway, switch, router or backhaul equipment etc.

Equipped with ITU-T G.9807 compliant XGS-PON interface, XG-99S incorporates interoperability, key customers' specific requirements and cost-efficiency. By integrating XGS PON MAC and standard compliant OMCI stack, XG-99S provides all XGS PON functionalities and full range FCAPS management features including supervision, monitoring and maintenance.

Service

Data

The XG-99S ONU is delivered with one SFP+ (Small Form-factor Pluggable) based 10G Base-X Gigabit Ethernet data interface, supporting:

- Built-in layer-2 switching
- Advanced data features such as VLAN tag manipulation, classification, and filtering

Specifications

Dimension (L x W x D)	<ul style="list-style-type: none"> • 87.5 mm x 14 mm x 12.5 mm
Working environment	<ul style="list-style-type: none"> • Case operating temperature: -40°~+85°C • Humidity: 5~95% relative humidity, non -condensed
Power supply	<ul style="list-style-type: none"> • Power consumption: < 2.8W
Safety & EMI	<ul style="list-style-type: none"> • CE certificate • FCC/UL compliant
Installation	<ul style="list-style-type: none"> • SFP+ Interface
OAM	<ul style="list-style-type: none"> • Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988 • Alarming and AVC report, performance monitoring • Remotely software image download over OMCI, as well as activation and rebooting • Hold two software sets with software image integrity checking and automatic rollback

Features

PON Interface	<ul style="list-style-type: none"> • Compliant with ITU-T G.9807 XGS-PON standards • SFF type laser, SC/APC connector • 10 Gbps Burst Mode Upstream Transmitter 10 Gbps Downstream Receiver • Compliant with ITU-T G.9807 Class N1 <ul style="list-style-type: none"> - APD receiver and DFB transmitter - 4~+9dBm launch power, -28dBm sensitivity, and -9dBm overload • Wavelengths: US 1260nm to 1280nm, DS 1575nm to 1580nm • Laser compliant with FCC 47 CFR Part 15, Class B, and FDA 21 CFR 1040.10 and 1040.11, Class I, ONT support Class C or Class C+ optics as an option
PON QoS	<ul style="list-style-type: none"> • Multiple T-CONTs per device • Multiple GEM Ports per device • Flexible mapping between GEM Ports and T-CONT • Activation with automatic discovered SN and password in conformance with ITU-T G.984.3 • AES-128 Decryption with key generation and switching • FEC (Forward Error Correction) in both directions • DBA reporting by piggyback reports in the DBRu {mode 0 and mode 1} • 802.1p mapper service profile on U/S • Mapping of GEM Ports into a T-CONT with priority queues based scheduling • Support Multicast GEM port and incidental broadcast GEM port
Ethernet Interface	<ul style="list-style-type: none"> • SFP+ based 10GBase-X GbE interface • Hardware priority queues on the downstream direction in support of CoS • 802.1D bridging • Virtual switch based on 802.1q VLAN • VLAN tagging/detagging • VLAN stacking {Q-in-Q} and VLAN Translation • IP ToS/DSCP to 802.1p mapping • Class of Service based on VLAN-ID, 802.1p bit, ToS/DSCP • Marking/remarking of 802.1p • Broadcast/Multicast rate limiting