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XGSPON SFP+

DESCRIPTION

XGSPON SFP+ is a XGSPON stick which is completely compliant to SFP MSA structure, providing customers a great conveniency to update the uplink port of their devices from the legacy Ethernet to up-to-date high bandwidth XGSPON.

FEATURES

- Support 1PPS+TOD,1588V2
- One single 3.3V power supply
- XGSPON ONU in SFP MSA structure
- 9.9532Gbps uplink / 9.9532Gbps downlink
- Single fiber bi-directional receptacle, support SC/APC
- 1270nm burst mode DFB transmitter / 1577nm continuous mode APD receiver
- Built in digital diagnostics functions
- Support 10GBASE-KR or 1000BASE-X mode on golden finger
- Support receiving Dying Gasp interrupt from Host, & reporting to OLT
- 0 to 40℃ operating ambient temperature

APPLICATIONS

Providing pluggable PON ONU function for Ethernet Switch, Router, Home gateway & other customer premises equipment.

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Specifications

Overview	
Type	XGSPON SFP ONU
MainChip	PRX
Uplink	XGSPON
Downlink	Golden Finger, 10GBSAE-KR or 1000Base-X
Operating Temperature	-25 ~ 40℃ for Ambient Temperature -40 ~ 85℃ for Case Temperature
Operating Humidity	5%~95%，non condensing
Dimension	76.2*13.7*12.2mm
Installation	SFP+, hot pluggable
Weight	TBD
Regulatory	TBD
Layer2 Features	
Bridging	Support MAC filter, MAC binding Support 4096bytes MTU Support GEM Port, Bridge Port, UNI Port Rate limit No Mac learning, forwarding based on the VLAN rules
VLAN	Support V LAN Tag Filter based on G.988 Support VLAN Tag Operation based on G.988 Support Multicast VLAN Operation based on G.988
QoS	Support SP, WRR , SP+WRR in the upstream Support SP in the downstream
OAM	
Management	Support OMCI, Web GUI, CLI
Upgrading	Support firmware upgrade via OMCI,WEB GUI,TFTP,FTP Support firmware upgrade from WAN side
Image Rollback	Hold a working image & a alternative image for image rollback
Restore Default	Use Web GUI, Telnet method to restore factory default
XGSPON uplink	
Interface	1x SC/APC connector, single mode fiber
Standard	Compliant with ITU-T G.9807 Compliant with SFF-8472
Transmitter	DFB transmitter working in 1270nm, with >6dB Extinction Ratio Mean launch power in 4.5~9dBm range
	SMSR > 30dB Turn on/off time at burst mode < 100ns
Receiver	APD receiver working in 1577nm Isolation to 1310nm > 27dB Isolation to (1440~1450nm), (1530~1540nm) > 25dB Isolation to (1400~1440nm), (1540~1625nm) > 31dB
Bandwidth	Up: 9.9532Gbps / Down: 9.9532Gbps
FEC	Support upstream & downstream FEC
Security	AES-128 Decryption with key generation and switching