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# XGS-PON ONU STICK USER MANUAL

# PRODUCT DESCRIPTION

- XGS-PON SFP+ ONT w/t MAC function (SFP+ stick)
- XGS-PON ONT with MAC function mounted into a standard SFP+ package.(Class N1)
- EN-XGSFPP-OMAC is delivered with one SFP+ (Small Form-factor Pluggable) based XFI interface with advanced data features such as VLAN tag manipulation, classification, and filtering





# PRODUCT FEATURES

- Bi-directional 9.953Gbps Upstream/9.953Gbps Downstream
- EEPROM with Serial ID Functionality
- Compliant with ITU-T G.9807
- SFP package with SC/UPC and MAC Inside
- Support Digital Diagnostic Monitoring interface
- 1270nm Burst mode transmitter,
- And 1577nm Continuous Mode Receiver
- Power dissipation < 3W
- Single + 3.3V Power Supply
- ROHS-6/6 compliant

# CASE OPERATION TEMPERATURE RANGES

- Commercial (0 to 70°C)
- Industrial (-40 to 85 °C)

# APPLICATIONS

- 10-Gigabit-capable passive optical networks(XG-PON1) ONU (ODN:N1 or N2a class)
- 1588v2 & SyncE
- Burst Mode application
- FTTX WDM Broadband Access

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	<b>EN-XGSİPP-OMAC-V2</b>	<b>EN-XGSİPP-OMAC-IV2</b>
Packaging Technology	SFP+	SFP+
Data Rate (Max)	9.953/9.953 gbps [TX/RX rate]	9.953/9.953 gbps [TX/RX rate]
Cable Distance (Max)	20 km	20 km
Wavelength	TX:1260-1280nm RX:1575~1580 nm	TX:1260-1280nm RX:1575~1580 nm
TX Power	4dBm~9dBm	4dBm~9dBm
Receiver Sensitivity	-28.5 dBm	-28.5 dBm
Receiver Overload	-8 dBm	-8 dBm
Max Power Consumption	2.8W	2.8W
Operating Temperature	0°C~70°C	-40°C~85°C
Modulation Format	DML	DML
Application	XGSPON ODN class : N2	XGSPON ODN class : N2



# STICK FUNCTION

- XGS-PON ONU Stick, based on Maxlinear chipset, supporting 1588 function. Manage through the web page to revise SN and MAC address.

# LOCAL MANAGEMENT ACCESS

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1. Unplug the network cable from the optical modem and plug it into the router's LAN port. Log on the router and configure the optical port as a WAN port
2. The IP Address to log into the router is 192.168.11.1
3. After logging, update LAN to WAN. You may use a fixed IP (ex.: 192.168.1.12)
4. Log in and set the MAC address
5. After the configuration is done, initiate the switch and plug in the XGS-PON ONU Stick
6. Connect to the LAN port through the network cable



## BroadBand Router

### Device Status

This page shows the current status and some basic settings of the device.

System	
Device Name	DFP-34X-2C2
Uptime	17 min
Firmware Version	V1.0-220304
CPU Usage	0%
Memory Usage	50%

LANConfiguration	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
MAC Address	00:00:00:00:00:00

Refresh



# HOW TO CHANGE THE MAC AND SN THROUGH TELNET:

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The XGS-PON stick can support VEIP mode and can change s/n and other stuff. May refer to the following process:

- Login the gateway by telnet, the default gateway IP: 192.168.11.1(the computer IP should be 192.168.11.xxx)
- Input the login name: root password:QpZm@4246#5753
- Enter the production test mode command : load\_cli factory
- Write MAC address command : set onu\_mac [ONUMAC]  
For example : set onu\_mac 10:B3:10:00:00:00
- Write device\_sn command : set device\_sn [Serialnumber]
- Check all information command : show allinfo
- Save command : exit





# TESTED OLTs

The tested OLTs include: Nokia, ZTE, DZS, Tibit and Iskratel.

ZTE OLT : ZXA10 C600

Tibit OLT: TXM-MPOLT-01E

DZS OLT:

- Management Cards :  
m1:\*MXK-MC-AETG2-TOP, 2U MGMT W/ 2x10G AE, W/ TOP (RUNNING)
- Line Cards :  
1:\*MXK-LC-NGP-C16-5, LINE CARD W/ 16 10/10 NGPON/GPON AND 2x100G AE (RUNNING)

Iskratel OLT : S13000 Lumia XG4



# Q/A SECTION

1. Does it support OMCI management too? Which version?

Support OMCI management. Verison 0xa3

2. Number of GEM port supported. 16, 32 or 64?

64

3. How many VLAN can be mapped to GEM ports, 16 32 or 64?

64

4. How many GEM ports are needed for OMCI management?

Generally, multiple vlans require multiple gempports. There is also a default broadcast gempport

5. Which vendor OLTs do you support? Are these tested and verified?

Huawei, Nokia and ZTE. Tested and verified.

6. We have a use case where we need to have at least 16 Cvlan and one management VLAN – can you support that?

Could support