XGS PON STICK PRODUCT INSTRUCTION

Product name：XGS PON STICK ONU

MAC IC ：Maxlinear PRX126

Product features：

- ➢ 3.3V Power supply
- ➢ Support 20km transmission distance with SMF
- ➢ Support data encryption
- ➢ Support VLAN function setting
- ➢ Support software on line upgrading.
- ➢ Support fault alarm
- ➢ Support dynamic bandwidth allocation
- ➢ Support transparent multicast transmission
- ➢ Support SC / APC or SC/UPC connector
- ➢ Complies with SFP+ MSA (SFF-8431)
- ➢ Complies with RoHS

一、APPLICATIONS

The XGS PON STICK optical module can fully comply the requirements of Telecom grade FTTB, FTTH, and FTTO devices. It can be hot plugged into the 10G SFP+ slot of a layer 2 Ethernet switch to work as an ONT, allowing the entire device to be directly connected to the XGSPON optical network. The central OLT only needs to register the XGS PON STICK optical module like a regular optical modem, and the communication device can complete the access switch from the original P2P network to the PON network.

二、USER GUIDANCE

1) Insert the XGS PON STICK module into the optical port of the switch or router and verify if it can be pinged;

2)Login method: SSH login (Telnet method is currently not supported)

The IP address of the STICK module is 192.168.1.1

User name ： root

No password

2）Main operation commands

View VLAN configuration issued by OLT

tc filter show dev eth0_0 ingress

View counter （MAC1 PON port，MAC4 LAN port）

switch_cli xgmac "*" get rmon

switch_cli xgmac "*" clear_rmon

pon eth_rx_counters_get 1024

pon eth_tx_counters_get 1024

Capture OMCI data packets

tcpdump -i gem-omci -w <file name>

View OMCI data packets

tcpdump -r <file name>

Export data package:

tftp 192.168.1.2 -l OMCI_date -p

-------Modify the registration method for loind/loin_pw

uci set omci.default.loid='ll_name'

uci set omci.default.lpwd='ll_password'

uci commit

sync

For example：

uci set omci.default.loid=sadasfgqwqwd

uci set omci.default.lpwd=hgdgfshdfsdas

uci commit

sync

Common configuration method instructions:

参数 Parameter	写值指令Write value Command	举例 Example	查询指令 Check command	举例 Example
写硬件版本号 Write Hardware version	sed -i 's/XXXXXXXXXX/ZZZZZZZZ/g' /etc/mibs/prx300_1U.ini	root@prx-sfp-pon:/#sed -i 's/PTXG_V0.01/v1.0/g' /etc/mibs/prx300_1U.ini	sed -n '30,30p' /etc/mibs/prx300_1U.ini	
写MAC Write MAC	uci set network.lct.macaddr uci commit sync	root@prx126-sfp-pon:/#uci set network.lct.macaddr="00:e0:92:00:01:40" root@prx126-sfp-pon:/#uci commit root@prx126-sfp-pon:/#sync	uci get network.lct.macaddr	root@prx126-sfp-pon:/# uci get network.lct.macaddr 00:e0:92:00:01:40
写SN Write SN	uci set gpon.ploam.nSerial XXXXXXXXXXXX uci commit sync	root@prx126-sfp-pon:/#uci set gpon.ploam.nSerial=POTR00000001 root@prx126-sfp-pon:/#uci commit root@prx126-sfp-pon:/#sync	uci get gpon.ploam.nSerial	root@prx126-sfp-pon:/# uci get gpon.ploam.nSerial INTC92000140
写设备型号 Write equipment number	sed -i 's/257 0 XXXXXXX/257 0 ZZZZZZZZZZZ/g' /etc/mibs/prx300_1U.ini sync reboot	root@prx126-sfp-pon:/#sed -i 's/257 0 XGPON/257 0 PT01XGS/g' /etc/mibs/prx300_1U.ini	sed -n '33,33p' /etc/mibs/prx300_1U.ini	root@prx126-sfp-pon:/# sed -n '33,33p' /etc/mibs/prx300_1U.ini 257 0 XGPON 0xa0 0 1 1 128 8 1 128 0 0x007f 0 0 10
写LOID/PASSWORD Write LOID/PASSWORD	uci set omci.default.loid='ll_name' uci set omci.default.lpwd='ll_password' uci commit sync	uci set omci.default.loid='123456789' uci set omci.default.lpwd='987654321' uci commit sync	uci get omci.default.loid uci get omci.default.lpwd	root@prx126-sfp-pon:/# uci get omci.default.loid 123456789 root@prx126-sfp-pon:/# uci get omci.default.lpwd 987654321
写vender ID Write vendor ID	sed -i 's/256 0 XXXXXXX/256 0 ZZZZZZZZZZZ/g' /etc/mibs/prx300_1U.ini sync reboot	root@prx126-sfp-pon:/#sed -i 's/256 0 ZTEG/256 0 OEMG/g' /etc/mibs/prx300_1U.ini sync reboot	sed -n '30,30p' /etc/mibs/prx300_1U.ini	root@prx126-sfp-pon:/#sed -n '30,30p' /etc/mibs/prx300_1U.ini 读取的数据：第三个就是vender ID: 256 0 ZTEG PTXG_V0.01 00000001 2 0 0 0 0 0

三、**Compatible equipment**

1）OLT

   ZTE、HUAWEI、NOKIA and some main brands

2）Switch

   HUAWEI、H3C、TP-LINK、CISCO and so on

The list of compatible equipments are continuously being updated.