

## WGP3200-S Series GPON ONU



#### 1.Product Overview

WGP3200-S series ONU is a triple-play GPON terminal product designed for FTTH multi-service accessing requirements by telecommunication, broadcasting and TV operators. Based on mature, stable and cost-effective GPON technology, it is characterized with high bandwidth, high reliability, easy management, favorable QoS guarantee, etc.

WGP3200-S ONU supports fiber accessing based on GPON technology. It has 1 EPON port uplink, 4 Ethernet ports at user side.

GPON technology, based on ITU-T G.984x series standards, is the latest PON accessing method. With high bandwidth, high efficiency, large coverage, and rich user ports, it is ideal for operators to achieve comprehensive transformation.

WGP3200-S can be used cooperatively with GPON OLT, EMS network management system to provide a complete accessing solution of multiple services like broadband, voice and video service.

#### 2.Performance Features

- $\geq$ Single fiber accessing.
- Fully compatible with ITU-T G.984 standard; adopt GPON upstream and downstream.  $\geq$
- Support 1 GE+3 FE auto-adapting Ethernet ports.  $\geq$
- Support OMCI/TR069 management.  $\triangleright$
- $\geq$ Support Ethernet auto-negotiation and MDI/MDIX auto-detection.
- Support loopback detection at user network interface.  $\geq$

#### ♦ Data Service

- Support Ethernet interface rate, working mode and Pause flow control configuration. ≻
- Support packet filtering and anti-illegal message protection, forbidding unknown unicast, broadcast  $\triangleright$ and multicast message.
- $\geq$ Support performance statistics of Ethernet lines.
- Support 4KVLAN, VLAN tagged label processing, traffic classification and packet filtering,  $\triangleright$



STP/RSTP etc.

- Support DHCP.
- Support PPPoE.
- Support multicast and IGMP Snooping.
- Support QoS.
- Support AES-128 decryption, key generation and switch.
- Support dual management based on DBA and priority to meet the minimum specified bandwidth needs for users.

### **3.Product Specification**

ltem	Specification			
	Interface			
	1*GPON port compliant with FSAN G.984.2 standard			
	Downstream data rate: 2.488Gbps;			
DON Interface	Upstream data rate: 1. 244Gbps			
PON Interface	SC/PC single-mode single fiber			
	Support 28dB link (FSAN Class B+)			
	1:128 splitting			
	1GE +3 FE auto-negotiation Ethernet ports			
Ethernet Interface	Full/half duplex mode			
Ethernet interface	RJ45 electrical port, support auto MDI/MDI-X;			
	Transmission distance 100m			
Power Interface	+12V DC power supply port			
	Performance Parameter			
	Wavelength: Tx 1310nm, Rx 1490nm			
PON Optical Port	Tx optical power: 0.5~5dBm			
Parameter	Rx sensitivity: -28dBm			
	Saturation optical power: -8dBm			
	Throughput: downstream >980Mbps; upstream >950Mbps			
Data Transmission	Ethernet port: 1000Mbps or 100Mbps			
Parameter	Packet Loss Ratio: <1*10E-12			
	Latency: <1.5ms			
	Device Management			
	Support OMCI protocol based on G.984.4			
Management Mode	Support TR069 remote management and remote update			
	Support local WEB/CLI management			
Eurotion Management	Status monitor, configuration management, alarm management,			
Function Management	log management			
Physical Feature				
Housing	Plastic housing			
Power Supply & Power External 12VDC/1A power supply adapter				



Consumption	Power consumption: < 4.3W		
Dimonoion <sup>®</sup> Weight	Product dimension: 150mm(L) x120mm(W) x 38mm (H)		
Dimension& Weight	Product weight: 0.27kg.		
	Operating temperature: 0 to $45^{\circ}$ C;		
Environmental	Storage temperature: -40 to 85 °C		
Specifications	Operating humidity: 10% to 90% (Non-condensing)		
	Storage humidity: 5% to 95% (Non-condensing)		

# 4. Port Description

	FE4 FE3 FE2 GE1 DC/12V ON OFF
1	Power on/off button
2	12V DC power input
3	Ethernet port 1
4	Ethernet port 2
5	Ethernet port 3
6	Ethernet port 4

# **5. Indicators Description**

PWR PON SYS ETH GE FE FE					
Function	Identifier	Status	Definition		
		On	Ethernet port is connected.		
Ethernet	Ethernet GE、FE	Flashing	Ethernet data is transmitting.		
		Off	Ethernet port is disabled.		
Internet	CTU	On	WAN accessed Internet.		
Internet	ETH	Flashing	data is transmitting.		
LOS SYS	SYS	Slow flashing	Optical receiving power is too low.		
LUS	515	Off	Optical receiving power is normal.		
	PON	On	The ONT connection is normal.		
PON		Flashing	The ONT is creating connection.		
		Off	No optical signal input or optical receiving power is too low.		
Power	PWR	On	Power on		
		Off	Power off		

# 6. ONU Common Fault Diagnosis

Phenomenon	Simple Troubleshooting			
All the indicators are off often	Please check if the power adapter is incorrect.			
All the indicators are off after the power is turned on.	Please check if the outlet has power.			
	The ONU terminal hardware may be broken.			
The LOS indicator is on or	Check if the fiber is rightly connected.			
flashing.	Check if the ONU lost optical parameters.			
	Please check if the NIC is disabled.			
192.168.1.1 ping block	Please check if the NIC's address is correct (should be on the			
	same network segment).			
	First check if the line optical attenuating is normal in the "Status" -			
Fail to register on the OLT	"Network information" page (see figure 5-1).			
	Loid error, wrong input or no such LOID on the OLT.			
	Whether the fiber is connected to the wrong PON port.			
	Log in to the WEB to check "Status" - "Network information" page. Whether the IP address of the INTERNET is obtained and the VLAN of the Internet on the OLT is correct (see figure 5-2).			
Fail to access the Internet				
after successful registration	If the IP address is not	The error "691" indicates the account		
	obtained, check the	or password is incorrect.		
		The error "678" indicates that the		
	5-3).	channel is unreachable.		
	Check if the router addres	ss is 192.168.1.1. If so, please change it		
	to 192.168.3.1.			
	Check whether the port is connected incorrectly. The network			
Unable to access the Internet	t cable should be connected WAN port on the router. Check the configuration of the router is correct. Generally, the IP			
after connecting the router				
	address is obtained by DHCP. If the optical modem is configured			
	as a bridge, the router needs to obtain the address in pppoe			
	mode.			