EasyPath GFA6000 Series GEPON OLT

EasyPath GFA6100 GEPON OLT

GFA6100 is a mini OLT (Optical Line Terminal) of "EasyPath GFA6000" series with rack-mount structure. It can support 4 GEPON optical interfaces and connect 256 remote ONUs at most, and it provides 4*GE optical/electrical uplink interfaces. EasyPath GFA6100 can be applied to FTTB/FTTP/FTTH access solution.

Features

Technical specifications			
Slot number	3	Power Supply number	2
PON optical interface	Interface type: SC/PC (SFP socket) Fiber mode: single fiber Wavelength: 1310/1490nm		
Ethernet electric interface	Support IEEE 802.3 10/100/1000BASE-TX Transmission rate: 10/100/1000Mbit/s auto-sensing Interface type: RJ45 MDI/MDIX: auto-sensing Working mode: full duplex/half duplex auto-sensing		
Ethernet optical interface	Support IEEE 802.3 1000BASE-LX/SX Transmission rate: 1000Mbit/s Interface type: LC/dual LC Working mode: determined by SFP module		
Network Management (In-band)	Dispense with specific interface, any service interface can be local Network Management interface		
Network Management (Out-of-band)	Transmission rate: 10/100Mbit/s auto-sensing Interface type: RJ45 Working mode: half/full duplex, auto-sensing MDI/MDIX: auto-sensing		
Console interface	Physical interface: RJ45 Electrical level: RS232 Baud rate: 9600		

System features

Data rate	Uplink/downlink 1.25Gbps	MAC address	16k
Transmission distance	20km	Split ratio	1:64
PON interface	4	ONU number	256
Switch capacity	16Gbps	Back-plane buss bandwidth	32Gbps
VLAN	Suport IEEE 802.1Q(VLAN) Support 4k VLAN Support IEEE 802.1ad (QinQ/ flexible QinQ) Support VLAN transparent transmission Support VLAN classification based on interface Support multicast VLAN	Layer-2 function	Support store-and-forward mode and layer-2 wire-speed forwarding Maximum frame: 9216 bytes Packet transmit rate: 35.7Mpps Support IEEE 802.1d (STP)/802.1w (RSTP)/802.1s(MSTP) Support broadcasting storm control Support port mirroring
Flow control	Support IEEE 802.3x(full duplex flow control) and back pressure flow control (half duplex)	Link integration	Support IEEE 802.3ad (Link integration) Support load equilibrium based on MAC and IP
Multicast	Suport SCB (Single Copy Broadcast) Support IGMP V1/V2 Support IGMP Snooping and IGMP Proxy Support 1000 multicast groups Support multicast source port control Support multicast authority control Support joining and fast-leave function of IGMP member Support static multicast	QoS	Support IEEE 802.1P(COS PRI) and DSCP Support service classification based on port, MAC address, IP address, TCP/UDP port number, ToS(Type of Service)/ Diffserv Support queue schedule algorithms such as SP (Strict Priority), WRR (Weighted Round Robin), SP+WRR Support 8 priority queuing for each port Support Ingress/Egress CAR, 64kbps increment Support Traffic Shaping Support Tail-Drop
DBA	Bandwidth increment is 64kbit/s Support fixed bandwidth/ guaranteed bandwidth/ maximal bandwidth, delay priority and etc SLA parameters	ACL	Based on port, MAC, IP, TCP/UDP port number, ToS/Diffserv
Security	Support interface isolation Support AES-128, data encryption for both upstream and downstream Support dynamic update of key	Reliability	Main control module supports switch between main and spare module Support 1+1 trunk protection Power supply supports backup function
Management	Support UniView DA NM platform based on SNMP V1/V2 Support Telnet management and local CONSOLE management Support in-band and out-of-band NM, and the management data configuration of VLAN and PRI	Maintenance	Support alarm and capability statistic, flow inspection, loop-back test, remote power-fail inspection Support long-distance on line upgrade of timing automatism and batch. Support remote line inspection, such as short circuit, incomplete circuit, and the location of failure.

Physical specifications

Dimension(mm) (W*D*H)	442(19inch)×321×45(1U)	Power supply	AC 220V and DC -48V, Support 1+1 backup
Weight	<7kg	Power consumption	<50W
Environment	Working temperature:0℃～45℃ Storage temperature:-10℃～70℃ Humidity: 10%～90% (non-condensing)		

Application

GFA6100 can support maximum 256 remote ONUs (Optical Network Unit) through the connection of fiber and ODN (Optical Distribution Network). EasyPath GFA6100 system can improve resource utilization of carrier basic network. It can provide broadband data service, traditional voice/VoIP service, CATV/IPTV service and TDM dedicated service and so on to realize FTTB, FTTP and FTTH optical access solution.
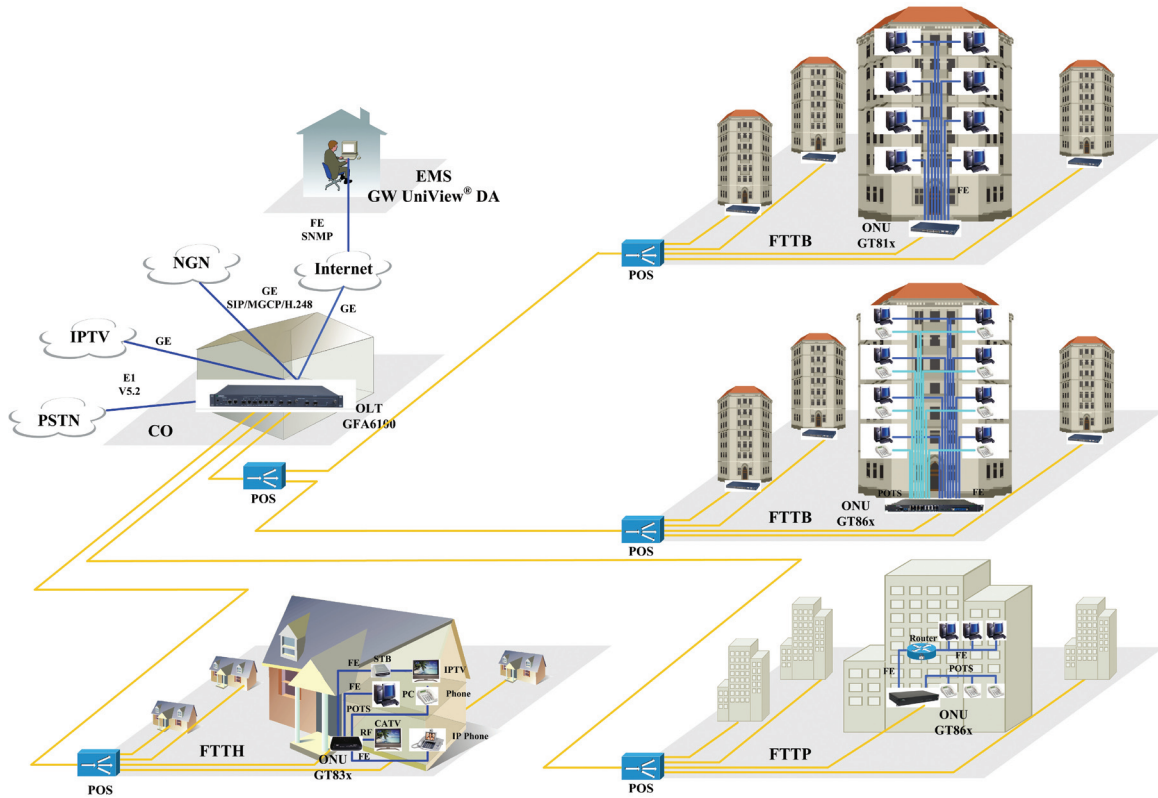
Ordering Info

Part Number	Description
GFA6100	GEPON OLT,1U. 2*EPON(SFP interface),4*GE Uplink(4*10/100/1000ETH electric interface+2*SFP interface slots, SFP GE Module(optional), provide expansion slot
GFA6100-PWU48-A0	GFA6100 Power Supply Module, DC-48V, support redundancy, power supply units(220V&-48V) mixed plug-in
GFA6100-PWU220-A0	GFA6100 Power Supply Module, AC220V, support redundancy, power supply units(220V&-48V) mixed plug-in
GFA6100-EPON-C0-C	EPON Service Module of GFA6700, 2*EPON(SFP interface),1:64 splitting ratio, 20km
GFA6100-TDM-A0-A	TDM SFP Module of GFA6100, N*E1，75Ω，support E1 Private Line
GFA6100-TDM-A0-B	TDM SFP Module of GFA6100, N*E1, 120Ω, support E1 Private Line
GFA-SG300D-AA	SG Gateway Module of central office OLT,16*E1,DC-48V,75Ω,support V5 interface
GFA-SG300D-AB	SG Gateway Module of central office OLT,16*E1,DC-48V,120Ω,support V5 interface
GFA-SG301D-BA	SG Gateway Module of central office OLT,16*E1,AC220V,75Ω,support V5 interface
GFA-SG300D-BB	SG Gateway Module of central office OLT,16*E1,AC220V,120Ω,support V5 interface