GL7500-10 Cost-Effective GPON OLT

GL7500-10 is the latest GPON OLT launched by GCOM. It uses modularized design concept, combined with advanced industrial design and manufacture technology to provide users with broadband access with moderate density, high reliability, flexible networking, easy installation and maintenance. GL7500-10 offers the IPv4/ IPv6 linear forward capacity, incomparable service performance, operational security attribute. Therefore, it can supply operational BBA network large capacity, high speed and high bandwidth data, voice and video service access for its high reliability, high scalability and super service performance. According to different user scenarios, GL7500-10 can be applied to FTTB, FTTC, FTTH, etc.

□8U ultra-compact chassis, high-density line card
□ 1+1 master redundancy, 1+1 power redundancy
□ hot plug fan tray, intelligent speed and temperature control
□ 10 *slot (8 * line card service slot and 2 *master transmission slot)
□ max 48*GPON Port
□ 400Gbps high-speed backplane
□ Forward and control double - mesh double plane, distributed business processing
□ IPv4/ IPv6 and MPLS hardware wire-speed forwarding capacity
□ full-load power consumption≤ 400 W

Product Specification:

Item	GL7500-10
backplane bandwidth	400Gbps
Switching Capacity	400Gbps
Forwarding Capacity(Ipv4/Ipv6)	305Mpps
Qty of total slots	10
Qty of service slots	8
Service port	downlink maximum 48*GPON（6*CPON line card） Uplink maximum 4*10GE SFP+
Redundancy Design	Double master redundancy Double power supply redundancy
Power Supply	AC: input 90～264V，47~63Hz DC: input -36V～-72V

Power Consumption	≤400W
Dimensions (Width x Depth x Height)	445mm×352.8mm×330mm
Weight (Full-Loaded)	≤40kg
Environmental Requirements	Working temperature:-10°C～60°C Storage temperature: -40°C～85°C Relative humidity: 5%～95%,non-condensing

Service Features:

Business function	Support feature
GPON Features	1. Support G.984 standards, uplink 1.244Gbps, downlink 2.488Gbps; 2. the machine supports max 48 GPON OLT ports; 3. Each GPON port supports 128 ONU, and the whole machine supports max 6144 ONU; 4. Each port supports 4096 GEM port; 5. Each port supports 128 Alloc ID ; 6. Support downlink AES-128 encryption protocol 7. Support uplink and downlink FEC, RS (255239); 8. Support for static bandwidth allocation CBA, dynamic bandwidth allocation DBA;
L2 forwarding	1. Storage and forwarding mode； 2. Support for dynamic learning of MAC addresses； 3. Aggregation part MAC address 64K; 4. Support MAC address clear, view, search; 5. Support 12KB overlength frames； 6. Support the 4K queues queue； 7. The switching capacity is 410Gbps;
Broadcast storm	1. Support unknown unicast, multicast, broadcast storm suppression; 2. The range of inhibition is 0~32000000 PPS;
Spanning Tree	Support 802.1D, STP, 802.1w, RSTP, 802.1s multi spanning tree protocol;
traffic control	1. Support 802.3X full duplex flow control;

	2. Support half duplex back pressure flow control;
Port rate-limiting	1. Support output port speed limit
	2. Rate limiting particle size 64Kbps
Link Aggregation	1. Support 128 aggregation groups;
	2. Each convergence group has a maximum of 8 ports.
	3. Support load balancing based on source MAC addresses, destination MAC addresses, VLAN, Ethernet types, source IP addresses, and destination IP addresses;
VLAN	1. Support 4K VLAN；
	2. Support 32K incoming port VLAN conversion；
	3. Support 32K egress VLAN conversion；
	4. Support dual 802.1ad flexible QINQ；
	5. Each port supports VLAN bindings based on ports, protocols, IP subnets, and priorities;
Flexible QINQ	Support flexible QINQ，S-VLAN supports 4096, and C-VLAN supports 4096;
L3 forwarding	1. Support 16K IPv4 host routing or 8K IPv6 host routing;
	2. Support 32K LPM IPv4 routing or 16K LPM IPv6 Routing;
	3. Support 8K IPv4 multicast or 4K IPv6 Multicast;
AAA and security	1. Support authentication based ONU MAC address ;
	2. Support ONU blacklist;
	3. Support user rating management and password;
	4. Support ACL packet filtering based on L2 and L3r protocols;
	5. Support downlink 128bit AES encryption;
System Maintenance	1. Provide the RS232 management interface Console;
	2. Support remote telnet maintenance;
	3. Support DHCP network management;

Purchase Information:

Product name	Product description
GL7500-10	GL7500-10,Rack
BF75MUPA	GL7500-10,main control panel
BF75GP08A	GL7500-10,GPON service port, 8*GPON SFP
BF75XG02A	GL7500-10,XGE card,2*10GE SFP+
NG01PWR450DC	450W DC power supply module，input DC -36V~-72V
NG01PWR450AC	450W AC power supply module，input AC 90V~264V,47～63Hz