

GPTC Series – GPT-C43BB 16 PON GPON OLT

GPTC43BB is 1U, 16 port GPON OLT, which is 1U rack-mounted device with 3x10G SFP+ & 4xGE SFP with 4xGE uplink COMBO ports, each GPON port supports the splitting ratio of 1:128 and provides downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps, system support 2048 GPON ONU accessing in for the most. GPT-C43BB is complete business service platform.



GPTC43BB 16PON GPON OLT		
Technical Specifications		
Chassis	Rack Mountable	1U
Chipset	Broadcom	
GPON Port	QTY	16
	Physical Interface	SFP Slots
	Connector Module Type	Class B+/C+/C++
Uplink Port	QTY	11
	SFP	3x10GE SFP+ & 4*GE SFP
	Ethernet	4*GE RJ45/Combo
	Max splitting ratio	1:128
PON Port Specification		
Transmission Distance	20KM	
GPON port speed	Downstream: 2.5Gbps Upstream: 1.25Gbps	
Wavelength	TX 1490nm, RX 1310nm	
Connector	SC/PC	
Fiber Type	9/125µm SMF	
TX Power	+1~+5dBm	
Rx Sensitivity	-28dBm	
Saturation Optical Power	-8dBm	
Management Mode	SNMP, CLI, WEB	
Max ONU	2048	

Management Function	Fan Group Detecting; Port Status monitoring and configuration management; GPON management function: DBA, ONU authorization, ACL, QOS, etc.; Online ONU configuration and management; User management; Alarm management.	
Layer2 Switch	Fully support of QoS Support VLAN Translation Support VLAN QinQ, Support VLAN tagging, trunk Support VLAN Aggregation Support Link aggregation Support port isolation Support RSTP; MAC limit, L2 –L4 ACL	
Multicast	IGMP snooping; 1000 IP Multicast Groups;	
DHCP	DHCP relay; DHCP snooping;	
Layer 3 Route	ARP, ARP proxy DHCP relay, DHCP proxy Static routing, Dynamic routing Support RIP, BGP, OSPF	
GPON Function	Tcont dba; Gempport traffic; In compliant with ITUT G.988 Standard; Support data encryption, multi-cast, port VLAN, separation, RSTP, etc.; Support ONU auto-find/link detection/remote upgrade of software; Support ONU Multiple Authorization: Loid, LOID+Password, SN, etc. Support VLAN division and user separation to avoid broadcast storm; Support VLAN Pool; Support ONU RF management Support power-off alarm function, easy for link problem detection; Support broadcasting storm resistance function; Support port isolation; Support ACL to configure data packet filter flexibly; Support ONU distance calculation on NMS; Support IGMP Proxy. Support Loop Detection; Support Rogue ONU Detect;	
Power Supply	220V/48V	
Power Consumption	<68W	
Operating Environment	Operating Temperature	-10~+55°C
	Storage Temperature	-40~+85°C

	Relative Humidity	5~90%(non-conditioning)
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Product Highlights

- Compact design 1U rack mountable
- Redundancy power supply

Delivering Capacity-

- 272 Gbps load sharing switching capacity
- 3x10 Gbps SFP+ Up-link

Layer 3 Functions -

- ARP, ARP proxy
- DHCP relay, DHCP proxy
- Static routing
- Dynamic routing: RIP, OSPF

Security features -

- Bidirectional data encryption
- Port isolation
- ONU authentication
- MAC limit
- L2 - L4 ACL

Layer 2 Functions -

- Fully support of QoS
- Support VLAN Translation
- Support VLAN QinQ
- Support VLAN tagging
- Support Link aggregation

Reliability -

- Full fiber backup
- Hot-backup Power Supply
- Loop protection
- Storm-suppression