GP1702 Series

xPON PoE MDU (Multi-Dwelling Unit)



Overview

BDCOM GP1702 Series is a new generation smart PoE MDU for integrated multi-service broadband access networks.

GP1702 PoE MDU Series, involving multiple models, supports common enterprise broadband access service and POE service.

BDCOM GP1702 PoE MDU series is compatible with EPON and GPON networks: complied with the international standard ITU-T G.984/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T1475-2006, and China Telecom EPON/ GPON Technical Requirement CTC. Standing out with great interoperability and operability, BDCOM GP1702-1G series can Interconnect well with OLTs of mainstream manufacturers in the industry.

GP1702 PoE MDU Series includes 3 models: GP1702-4GPM GP1702-8GPM, GP1702-24GPM

Highlights

Excellent Access Capacity

GPON: supports the PON transmission rate of downlink 2.5Gbps/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:128 splitting ratio. The covering radius of the network can reach to 20km.

EPON: supports the PON transmission rate of downlink 1.25Gbps/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:64 splitting ratio. The covering radius of the network can reach to 20km.

Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONU, BDCOM has developed techniques including VLAN, STP, port isolation, ACL, QoS and Broadcast Storm Control.

Complete Interaction Capacity

M BDCOM

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GPON and EPON auto-adaptive



Efficient bandwidth usage and Ethernet services



The Splitting ratic ups to 1:128

BDCOM GP1702 Series

Highlights

Advanced Energy-saving Technique

GP1702 Series supports the "GreenTouch" architecture and "Smart@CHIP".

High Service Control Capability

BDCOM GP1702 series supports DBA and Rate-Limit. BDCOM GP1702 series also supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 2.5Gbps (GPON) and 1.25Gbps (EPON) bandwidth resource appropriately. In addition, the QOS function of BDCOM GP1702 series guarantees a reliable service quality and service priority. bandwidth resource appropriately. It also supports QOS function, which guarantees a reliable service quality and service priority.

Model Lists

GP1702-4GPM

xPON PoE MDU(Multi-Dwelling Unit)



· 1-Port SC/UPC · 4-Port Gigabit PoE

GP1702-24GPM

xPON PoE MDU(Multi-Dwelling Unit)



· 1-Port SC/UPC

· 24-Port Gigabit PoE

Rich OMCI&OAM Function

BDCOM GP1702 series supports the standard OMCI defined by ITU-T, standard OAM and extended OAM defined by telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OMCI and OAM defined by BDCOM.

Varied Application Scenarios

GP1702 PoE MDU series can support 802.3af/at standard.All models support 802.3af full load on all ports.

GP1702-8GPM

xPON PoE MDU(Multi-Dwelling Unit)

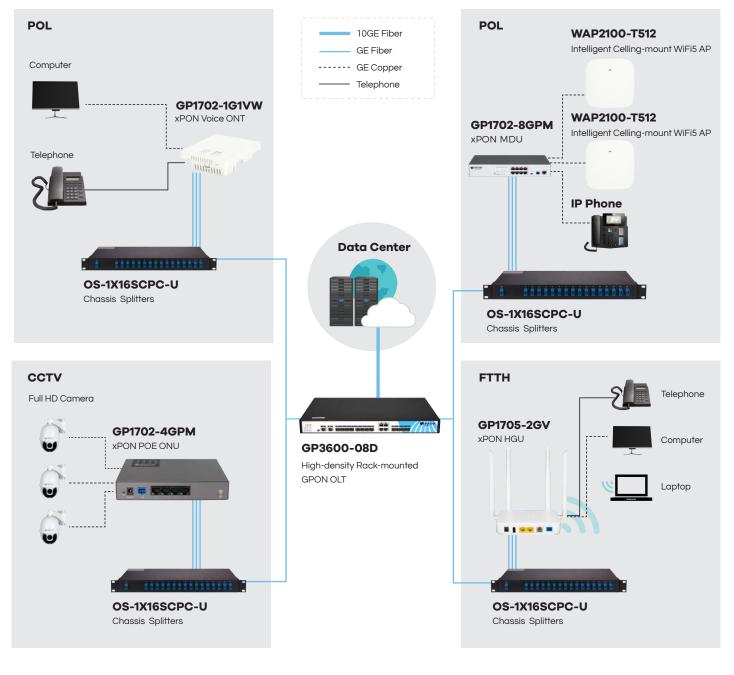


· 1-Port SC/UPC · 8-Port Gigabit PoE

BDCOM GP1702 Series



Application Diagram



BDCOM GP1702 Series

System Performance

Item		GP1702-4GPM	GP1702-8GPM	GP1702-24GPM
Service	interface			
PON ports		1-Port SC/UPC	1-Port SC/UPC	1-Port SC/UPC
UNI ports		4-Port Gigabit PoE	8-Port Gigabit PoE	24-Port Gigabit PoE
Optical power	TX power RX sensitive	0.5~5dBm -28dBm	0.5~5dBm -28dBm	0.5~5dBm -28dBm
Power s	supply			
Power supply		12V/1A	100-240V AC	100-240V AC
Max. consumption (W)		10	15	25
PoE budget (W)		65	125	370
Appear	ance			
Chassis	Dimensions (WxDxH mm)	170 x 98 x 28	280 x 180 x 44	440 x 207 x 44
	Weight (Kg) (empty)	0.7	1.7	3.0
Package	Dimensions (WxDxH mm)	250 x 230 x 55	400 x 220 x 63	500 x 323 x 75
	Weight (Kg)	0.9	2.2	3.7
Environ	mental specific	ations		
Operating	Temperature		0~45°C	
	Humidity	10%~85%(non-condensing)		
Storage	Temperature	-40°C~85°C		
	Humidity	5%~95%(non-condensing)		
Access	ories			
Parts			Power adaptor/power cable	

Technical Specifications

Standards

- ITU-T G.984/G.988,
- IEEE802.3ah
- GBT33845-2017, YD/T 1475-2006
- IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- ITU-T Y.1291

VLAN

- 4K VLAN
- Port based VLAN
- IEEE 802.1Q VLAN
- Tag/Transparent/Aggregation /Trunk/Translation mode VLAN
- CTC2.0 defined VLAN

XPON Service

AES128 algorithm encryption

Ordering Information

MAC/Loid/Hybrid
 authentication

QoS

- Backpressure flow control (half-duplex)
- IEEE 802.3x flow control (full duplex)
- Against Head of Line mechanism
- IEEE 802.1p, CoS
- Four priority queues on each
 port
- WR, SP and FIFO queue schedule
 algorithms
- Port rate limit
- SLA and DBA

Management

- Management modes including
- CLI, HTTP, SNMP and TELNET
- Software upgrade through TFTP and WEB, OMCI, OAM,etc.
- Local or server syslog

Network Security

- MAC address number limit
- MAC filter
- Port protect

Multicast

- IGMP-Snooping
- CTC defined dynamic
- multicast function
- MLD-Snooping
- Multicast group limitation
- Multicast fast-leave

Reliability

- Loop detection
- Dying-Gasp
- TX/RX optical power alarm

Model	Description	
GP1702-4GPM	xPON PoE ONU, 1-Port GPON/EPON (SC/UPC), 4-Port Gigabit PoE+, metal casing, DC12V/1.17A power adaptor	
GP1702-8GPM	xPON PoE MDU (Multi-Dwelling Unit), 1-Port GPON/EPON (SC/UPC), 8-Port Gigabit PoE+, met casing with cooling fan, single AC-220V power supply, 130W PoE budget)	
GP1702-24GPM	xPON PoE MDU(Multi-Dwelling Unit), 1-Port GPON/EPON (SC/UPC), 24-Port Gigabit PoE+, metal casing with cooling fan, single AC-220V power supply, 370W PoE budget)	

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