

GPON MULTI-SERVICE Broadband Access ONT

TS-1GP4G-POE

Product Overview

BDCOM TS-1GP4G-POE Series is a new generation smart ONT for integrated multi-service broadband access networks. TS-1GP4G-POE supports common enterprise broadband access service, POE service and outdoor wide-temperature.

TS-1GP4G-POE is complied with the international standard ITU-T G.984/988 and PRC Communication Industry Standard GPON ONT in Access Technology Requirements and China Telecom GPON Technical Requirement CTC2.0.

Product Characteristics

Excellent Access Capacity

TS-1GP4G-POE SUPPORTS the PON transmission rate of downlink 2.5Gbp/ UPLINK 1.25Gbps. Connected with BDCOM OLT, it can realize 1:128 splitting ratio. The covering RADIUS of the network can reach to 20km.

Secure Service Carrying Ability

For ENSURING the SECURE service carrying ability of ONT, BDCOM has developed techniques INCLUDING VLAN, STP, port isolation, ACL, QoS and Broadcast Storm Control.

High Service Control Capability

TS-1GP4G-POE SUPPORTS DBA and Rate-Limit. It SUPPORTS advanced dynamic bandwidth DISTRIBUTION and ACCURATE bandwidth limit, which enables USERS to share 2.5Gbps bandwidth RESOURCE appropriately. It also SUPPORTS QOS FUNCTION, which GUARANTEES a reliable service QUALITY and service priority.

Rich OMCI Function

TS-1GP4G-POE SUPPORTS the standard OMCI defined by ITU-T, INCLUDING CONFIGURATION, alarm, performance monitoring, FAULT isolation and SECURITY management, and it also SUPPORTS private OMCI defined by BDCOM.

Complete Interaction Capacity

TS-1GP4G-POE is complied with ITU-T G.984/988 and relevant requirements for PRC COMMUNITY INDUSTRY Standard GPON ONT in Access Technology Requirements and China Telecom GPON Technical Requirement CTC2.0.

Advanced Energy-saving Technique

TS-1GP4G-POE SUPPORTS the “GreenTOUCH” architecture and “Smart@CHIP”.

Varied Application Scenarios

TS-1GP4G-POE can SUPPORT 802.af/at.



System Performance

Service Interface	PON Ports		1 SC/UPC
	Ethernet Ports		4 GE POE
	Optical Power	TX power	0~4dBm
		RX sensitive	<-27dBm
System Capacity	DRAM (MB)		128
	Flash (MB)		128
	VLAN ID		4K
	MAC Table		2K
Power Supply	AC Adaptor		INPUT: 100-240V AC ; OUTPUT: DC53.5V/1.2A
	Max. Consumption		65(with POE)
Appearance	Chassis	Dimensions (WxDxH mm)	170 x 98 x 28
		Weight (Kg)(empty)	0.6
	Package	Dimensions (WxDxH mm)	250 x 230 x 55
		Weight (Kg)(empty)	0.8
Environmental	Operating	Temperature	0~45°C
		Humidity	10%~85% (non- condensing)
	Storage	Temperature	-40°C ~85°C
		Humidity	5%~95% (non-condensing)
Accessories	Parts		Power Adaptor

Technical Specifications

Standards

- ITU-T G.984/G.988
- PRC COMMUNITY INDUSTRY Standard GPON ONU inAccess Technology REQUIREMENTS
- IEEE 802.1D, Spanning Tree
- 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

EPON Service

- AES128 algorithm encryption
- 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, 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