



TS-1GP1G

GPON ONU 1x 10/100/1000Mbps ports

PRODUCT OVERVIEW:

TELESYSTEM TS-1GP1G is a new generation smart ONU with 1x 10/100/1000Mbps ports for integrated multi-service networks. It is complied with the international standard ITU-T G.9844/988 and PRC Communication Industry Standard GPON ONU in Access Technology Requirements.

PRODUCT CHARACTERISTICS:

- **Excellent Access Capacity:** It supports the PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. Connected with TELESYSTEM OLTs, 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 ONU, TELESYSTEM has developed techniques including VLAN, STP, port isolation, ACL, QoS and Broadcast Storm Control.
- **High Service Control Capability:** It 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 Functions:** It supports the standard OMCI defined by ITU-T, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OMIC defined by TELESYSTEM.
- **Complete Interaction Capacity:** It is complied with ITU-T G.984/988 and relevant requirements for PRC Community Industry Standard GEAPON ONU in Access Technology Requirements.
- **Advanced Energy-saving Technique:** It supports the “GreenTouch” architecture and “Smart@CHIP”.

TECHNICAL PARAMETERS :

Attributes	TS-1GP1G
User trial interface	1 fixed 10/100/1000 BASE-T auto-adaptation RJ45 interface
PON interface	downlink 2.5Gbps / uplink 1.25Gbps The network covering radius: 20km Type of the optical interface: SC/UPC Hi-sensible optical receiver: -27dBm

	<p>Radiation power: 0.5 ~5dBm</p> <p>Security: ONU authentication mechanism</p>
Standards	<p>ITU-T G.984/G.988</p> <p>PRC Community Industry Standard GEPON ONU in Access Technology Requirements</p> <p>IEEE 802.1D, Spanning Tree</p> <p>IEEE 802.1Q, VLAN</p> <p>IEEE 802.1w, RSTP</p> <p>ITU-T Y.1291</p>
VLAN	<p>Supports 64 VLANs (1~4094)</p> <p>Port based VLAN</p> <p>IEEE 802.1Q VLAN</p> <p>CTC2.0 defined VLAN</p>
Multicast	<p>IGMP-Snooping</p> <p>CTC defined dynamic multicast</p> <p>MLD-Snooping</p>
QoS	<p>Backpressure flow control (half duplex)</p> <p>IEEE 802.3x flow control (full duplex)</p> <p>Head Of Line (HOL) mechanism</p> <p>IEEE 802.1p, CoS</p> <p>four priority queues on each port</p> <p>WR, SP and FIFO</p> <p>Rate limit</p>
Reliability	<p>Loop detect</p> <p>Dying-Gasp</p>
Security	<p>Limitation to the number of MAC addresses on the port</p> <p>Port protection</p> <p>Port storm control</p>
Management	<p>CLI, Web, SNMP and TELNET</p>

	Software upgrade through TFTP and WEB Local syslog or server syslog
Dimensions mm (WxDxH)	130 x 100 x 28 Installation: plug and play
Heat dissipation	Supports long-time use (For instance, 24 hours); The device running hot will not affect its performance or cause it break down.
Environment requirements	Operating environment: 0°C~45°C; 10%~85% non-condensation Storage environment: -40°C~80°C; 5%~95% non-condensation
Power supply	DC12V/0.5A (external adaptor power supply)
Power consumption	<6W