TR-GP3600 Series

High-Density GPON OLT

Product Overview

Techroutes GP3600 complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in *Network Access Technical Requirements*. It fully supports CTC2.0, automatic discovery and cooperation with ONUs of different manufacturers.

Techroutes GP3600 supports the Asymmetric uplink 1.25Gbps/downlink 2.5Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimize the carrier's investment.

Techroutes GP3600, based on the edge-cutting technologies, is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.

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Technical Specifications

Attributes		TR-GP3600-08	TR-GP3600-16
System Capacity		Maximum coupling ratio:1:128	
		Backplane bandwidth:205G	
		MAC table capacity: 64K	
Interface	PON	8	16
	Uplink interface	8 GE ports (4 gigabit SFP ports, 4 gigabit TX/SFP combo ports)	
		4 10GE ports	
Attributes of the PON Interface		The transmission rate with downlink 2.5Gbps/uplink 1.25Gbps	
		Class B$^+$ and Class C$^+$ GPON module	
		Security: ONU authentication mechanism	
Standards		ITU-T G.984/G.988	
		IEEE 802.1D, Spanning Tree	
		IEEE 802.1Q, VLAN	
		IEEE 802.1w, RSTP	
		IEEE 802.3ad physical link static/dynamic aggregation (LACP)	
		Ethernet – II	
QoS		Backpressure flow control (half duplex)	
		IEEE 802.3x flow control (full duplex)	
		IEEE 802.1p, CoS	
		WRR, SP and FIFO queue schedule	
		Limiting the uplink/downlink rate based on each ONU	
		DBA and SLA	
VLAN		Port-based VLAN, 4K VLAN	
		QinQ and flexible QinQ	
Multicast		L2 Multicast	
		IGMP Snooping	
		MLD Snooping	
Reliability		Unidirectional Link Detection (UDLD)	
		Hot swap of the GPON optical module	
		Optical path protection of GPON (type B/C, hand-in-hand)	
		Abnormal luminescence ONU detection such as long luminescence	
Network Security		Limiting the maximum number of users on each port	
		Port isolation	
		Packet storm control	
		Flow-based ACL access control function	
		Transmission data encryption on the PON interface	
Configuration Management		Various management modes such as CLI, SNMP and TELNET	
		Conducting software upgrade through TFTP	
		Debug output	

Your Route to The Destination

Physical Characteristics	Dimensions mm (W×D×H): 442.5x304x 44
	Installation: standard 19-inch rack-mounted
	Weight:5.25Kg
Environment	Operating environment: 0℃-45℃; 10%-85% non-condensing
	Storage environment: -40℃-80℃; 5%-95% non-condensing
Power Supply	Input voltage: AC90 ~ 240V, DC 36 ~ 72V
	dual-power input, DC/AC power supply and hot-swap

Ordering Information

Model	Description
TR-GP3600-08	OLT with 8 PON ports (1 Console port, 1 out-of-band management 10/100M Ethernet port, 8 fixed PON ports (exclude OLT SFP module), 4 gigabit SFP ports, 4 gigabit combo ports, 4 10GE SFP+ ports; standard AC90~240V single power supply, expansion dual power supply, 19-inch rack-mounted installation)
TR-GP3600-08-DC	OLT with 8 PON ports (1 Console port, 1 out-of-band management 10/100M Ethernet port, 8 fixed PON ports (exclude OLT SFP optical module), 4 gigabit SFP ports, 4 gigabit combo ports, 4 10GE SFP+ ports; standard DC36V~72V single power supply, expansion dual power supply, 19-inch rack-mounted installation)
TR-GP3600-16	OLT with 16 PON ports (1 Console port, 1 out-of-band 10/100M Ethernet port, 16 fixed PON (exclude OLT SFP module), 4 gigabit SFP ports, 4 gigabit combo ports, 4 10GE SFP+ ports; standard AC90~240V single power supply, expansion dual power supply, 19-inch rack-mounted installation)
TR-GP3600-16-DC	OLT with 16 PON ports (1 Console port, 1 out-of-band 10/100M Ethernet port, 16 fixed PON ports (exclude OLT SFP optical module), 4 gigabit SFP ports, 4 gigabit combo ports, 4 10GE SFP+ ports; standard DC 36V~72V single power supply, expansion dual power supply, 19-inch rack-mounted installation)
PWR-150-DC	OLT DC power supply (input voltage DC36V~72V, 150W max power)
PWR-150-AC	OLT AC power supply (input voltage AC90~240v, 150W max power)
OLT-GSFP-B+	OLT SFP module, Class B+ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface
OLT-GSFP-C+	OLT SFP module, Class C+ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface

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