

## TR-GP3600-04



### High-Density GPON OLT

#### Product Overview

Techroutes GP3600-04 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 GP3600-04 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 GP3600-04, 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.

**Technical Specifications**

TR-GP3600-04	
<b>Service Interface</b>	
PON Ports	4
GE Uplink	4 GE Tx
10 GE Uplink	4 10G/1G SFP+
Supported GPON SFP	Class B+, Class C+ and Class C++
<b>Management Interface</b>	
RJ 45 Console	Uplink interface
Mini-USB Console	1
Out-of-Band	1
<b>System Capacity</b>	
DRAM (MB)	512
Flash (MB)	32
Black Plane (Gbps)	126
MAC Table	64K
Buffer Size (MB)	2
Jumbo Frame (KB)	2
IPv4 Routing Table	32K
IPv6 Routing Table	8K
Active VLAN	4096
SVI Number	400
Forwarding Mode	Store-and-Forward
<b>Standard</b>	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
<b>VLAN</b>	Port/IP/Protocol/MAC Based VLAN
	4K VLAN
	QinQ and flexible QinQ
<b>Multicast</b>	IGMP Snooping
	MLD Snooping
	L2 Multicast
	Fast Leave
<b>Layer 3 Function</b>	Static Route
	RIP V1/V2
	OSPF
	BGP
<b>QOS</b>	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
<b>Reliability</b>	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
	IEEE 802.3ad LACP
<b>DHCP Function</b>	DHCP Server/Relay/Client
	DHCP Snooping
	DHCP Option 66,67,82
	DAI
	IP Source Guard
<b>Network Security</b>	L2~L4 ACL
	Flow-Based ACL
	MAC Limitation
	MAC Sticky
	Port Isolation
	Packet Storm Control
	Transmission Data
	Encryption on the PON Interface
	Anti Attack for DDOS,TCP-SYN-Flood,UDP-Flood,ARP-Flood etc.
<b>Management</b>	Various management modes such as CLI,TELNET,SSH,HTTP,SSL,SNMP
	ISSU
	FTP/TFTP
	SPAN/RSPAN
	NTP
<b>Network Availability</b>	STP/RSTP/MSTP
	BPDU
	EAPS
<b>Power Supply</b>	
AC (V)	90~264
DC (V)	36~72
Power Slots	2
Max. Consumption (W)	50
Total output BTU	170.6
<b>Cooling System</b>	
Fan number	3
Air-Flow	Left-Right
Noise @ 25 °C (dBA)	<45

Appearance	
Chassis Dimension (WxDxH) mm	442.5x304x44
Chassis Weight (kg) Empty	5.3
Package Dimension (WxDxH) mm	576x448x94
Package Weight (kg)	6.2
Environmental Specifications	
Operating Temperature	0~45°C
Operating Humidity (Non Condensing)	10%~85%
Storage Temperature	-40°C~80°C
Storage Humidity (Non Condensing)	5%-90%
Accessories	
Parts	Power Cord, Rack mount Kit, Console Cable
Reliability	
MTBF (Hour)	95000
Certification	CE, FCC, RoHS, ISO

### Order Information

TR-GP3600-04	
TR-GP3600-04	GPON OLT with 4 PON Ports ( 1 Console Port, 1 out-band 10/100M Ports, 4 Fixed PON Ports, 4 GE-Tx Ports, 4 10G SFP+ Ports, Standard AC 90~264V Single Power Supply, expandible to dual power supply, 19-inche Rack Mountable Installation.
TR-GP3600-04-DC	GPON OLT with 4 PON Ports ( 1 Console Port, 1 out-band 10/100M Ports, 4 Fixed PON Ports, 4 GE-Tx Ports, 4 10G SFP+ Ports, Standard DC 36~72V Single Power Supply, expandible to dual power supply, 19-inche Rack Mountable Installation.
PWR-75-AC	OLT AC power supply ( input voltage AC 90~240V,75W max power)
PWR-75-DC	OLT DC power supply ( input voltage DC 32~72V,75W 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
OLT-GSFP-C++	OLT SFP module, Class C++ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface



#### For More details:

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