Telesystem

TS-OLT16GP-2TE

PRODUCT OVERVIEW :

TELESYSTEM TS-OLT16GP-2TE complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in Network Access Technical Requirements.

It fully supports CTC 2.0, automatic discovery and cooperation with ONUs of different manufacturers.

TELESYSTEM TS-OLT16GP-2TE 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.

TELESYSTEM TS-OLT16GP-2TE, 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.

PRODUCT CHARACTERISTICS :

- **GPON**: Abiding by ITU-T G.984/G.988, TELESYSTEM TS-OLT8GP-2TE series OLT meets relevant requirements of GPON OLT regulated in Network Access Technical Requirementsand.
- **SystemCapacity**: TS-OLT16GP-2TE series supports maximum 16 GPON ports.
- **Uplink Interface**: TS-OLT16GP-2TE series with 4 gigabit SFP ports, 4 gigabit combo ports, and 4 10G SFP+ ports.
- **Dimensions:** 1U, occupies a small space.
- **Environmental Protection:** low power consumption and low operating cost.
- **Bus Optical Fiber Protection:** the link can be automatically switched when trouble occurs in the optical fiber.
- **Power Characteristics:** supports dual-AC, dual-DC and AC/DC power supply. The power supply supports modularized design, hot-swap and EMC-3 standard. It well adapts to the environment.

TECHNICAL PARAMETERS :

Attributes		TS-OLT16GP-2TE
System Capacity		Maximum coupling ratio:1:128 Backplane bandwidth:205G MAC table capacity: 64K
Interface	**PON**	16

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	Uplink interface	4 gigabit SFP slots, 4 gigabit TX/SFP combo ports 4 10G SFP+ slots
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 QinQ and flexible QinQ
Multicast		L2 multicast IGMP Snooping MLD Snooping
Layer-3 routing functions		Static routing, RIP and OSFP,OSFP/OSPFv3
Reliability		Unidirectional Link Detection (UDLD) Hot swap of the GPON optical module Optical path protection of GPON (type B/C, hand-in-hand)

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Abnormal luminescence ONU detection such as long luminescence

RACK-MOUNTED GPON OLT

Telesystem

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

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