

TSCOM TP3500 OLT

Carrier Grade Optical Access Platform

Compact Gigabit Ethernet Passive Optical Network (Gepon) Platform Delivers Voice, High-Speed Data And Video Services To Residential And Business Subscribers



- IEEE802.3AH GE PON
- COMPACT CHASSIS
- 64 SPLITS, 20KM REACH
- 8/12/16 PON PORT SUPPORTED
- L2/L3/L4 FUNCTION
- 128G BACKPLANE BANDWIDTH
- 10GE PORTS AS OPTION
- DYNAMIC BANDWIDTH ALLOCATION
- INDIVIDUALIZED BILLING PER SERVICE LEVEL AGREEMENT
- PORT AGGREGATION AND SPANNING-TREE SUPPORT FOR REDUNDANT DATA NETWORK ACCESS
- VLAN MANAGED SERVICES WITH PRIORITY QOS PROCESSING
- MULTICAST SUPPORT FOR VIDEO STREAMING
- REMOTE PROVISIONING AND MANAGEMENT
- ADVANCED SECURITY
- SNMP NETWORK MANAGEMENT INTERFACE
- CIRCUIT TESTING AND LOOP BACKS FOR TELEPHONY SERVICES

Telesail's TSCOM TP3500 Optical Line Terminal (OLT) provides a direct optical interface to the Ethernet/IP network core, which has high reliability, highly dense EPON access and robust switching and routing abilities, is a new generation of broadband and multiservice access OLT devices oriented towards the service-integrated network. Together with Telesail's Optical Network Unit(ONU), it completes the end-to-end FTTx with up to 1 Gbps of bandwidth to residential and business customers.

Highlights and Benefits

Flexible and Cost-effective Triple Play Transport

TSCOM TP3500 OLT series includes three models: TP3508 (8 PON ports, 8 GE uplink), TP3512 (12 PON ports, 8 GE uplink) and TP3516 (16 PON ports, 8 GE uplink). All TP3500 OLT products support power redundancy. Each PON interface delivers 1 Gbps of shared bandwidth for up to 64 subscribers. High subscriber density combined with the operational cost savings of EPON technology make TSCOM TP3500 a compelling alternative to legacy, firstmile access solutions. It supports flexible concentration ratio between OLT and GE uplink modules thus providing wide variety of Service deployment option.

Customized Broadband Service Offerings

TSCOM TP3500 QoS features allow operators to oversubscribe bandwidth while protecting delay-sensitive traffic based on individualized Service Level Agreement (SLA). Dynamic bandwidth allocation enables operators to bill bandwidth in 1 Mbps increments. For video services, IGMP support allows for multicast control and snooping, ensures efficient utilization of network infrastructure.

Cost-effective Layer3 Ethernet Switching

OLT has L2/L3/L4 functions, supports 128Gbps backplane bandwidth, static routes, RIP, OSPF and so on. It supports advanced functions such as QoS, bandwidth control and multicast, adding extra values to the whole network.

Easy Provision, Rapid Revenue Generation

Powerful OAM functions enable remote diagnostics, flexible provisioning, and reconfiguration of the TSCOM TP3500 OLT. Meanwhile, hardware-based flow classification, multicast, rate limitation and advanced QoS give strong supports for users to operate the value-added services. It is highly reliable and 1+1 power redundancy support. Also the trunk fiber can be automatically switchover when trouble occurs on the trunk fiber link.

Specification

Physical

- 19" rack chassis
- Dimensions
TP3500: 44mm H x 442.5mm W x 300mm D
- Weight: 2Kg

Power and Environmental

- Power Consumption:<100W
- Dual Power modules redundancy
DC: (-36~-72V) input
AC: 90-264V ,50/60 Hz
- 0°C to +55°C ambient air temperature
- 10% to 85% operating humidity
(non condensing)

Architecture

- Compact 1U chassis
- Fix OLT EPON Interface
TP3508: 8
TP3512: 12
TP3516: 16
- 4 gigabit TX/SFP Combo interface
- 4 1000Base-FX ethernet interface
- 10GE: 2 (optional)
- Backplane: 128G

OLT Module

- IEEE 802.3ah compliant
- SFF optical module
- SC/PC optical PHY (single-mode fiber)
- 1310nm burst receive
- 1490nm continuous trans
- Symmetric 1.25Gbps per PON port
- 20km distance
- Splits per OLT port Max: 1:64
- Tx Power:+2dbm ~ +7dbm
- Rx Sensitivity:-30dbm
- Trunk fiber protection, full protection support

L3 Switching & Routing Functions

- STP/RSTP/MSTP
- Port based Vlan,IEEE802.1Q with 4K VLANs handling
- GVRP,PVLAN,VLAN Stacking(QinQ)
- IEEE 802.3ad link aggregation(LACP)
- IEEE802.3x in full duplex, back pressure in half duplex
- Static route, RIPV1/2, OSPF, BGPv4
- 32K MAC table support
- 12K Routing table
- MAC management(Learning control, limit and aging) support
- DHCP Server/Client/Relay (Option 82)
- ARP support(static ARP, proxy ARP per RFC1027,ARP per RFC826)

Network Management

- 1 10/100BaseT OAM Ethernet port (RJ45)
- 1 RS232 for console
- Web-enabled GUI based local configuration
- SNMP v1,v2c
- RMON
- FTP/TFTP,Telnet,Console interface with CLI
- ONU Remote Upgrade and Management
- In-Band/Out-of-band management
- Environmental monitoring

Multicast

- IGMPv1/v2/v3, Proxy and Snooping
- Multicast Vlan,Fast Leave
- Multicast control support

Quality of Service (QoS)

- 8 CoS queuing
- IPv4 TOS priority, IEEE 802.1 p
- SP and WRR congestion management
- Classification based Traffic Metering, Shaping and Marking
- Upstream Dynamic Bandwidth Allocation (DBA) per ONU
- Downstream Bandwidth Control per ONU

Security

- Access Control List (ACL)
- Port/MAC binding,MAC filtering and Limit
- Per VLAN User Isolation
- Packet mirroring per ingress/egress port
- Limiting the maximum number of users per port
- EPON Frame Encryption: AES128 bit downlink encryption
- Broadcast/Multicast/DLF storm control

Telesail Technology Co., Ltd

3F,TAIWEI Tower, No. 31 Jiancai West St.
Haidian District, Beijing, China 100096
Email : sale@telesail.com
Tel: +86 10 8291 2638
Fax: +86 10 5141 7010
Web Site: <http://www.telesail.com>

About Technology Co., Ltd

Telesail Technology is professional in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless,transmission solutions to operators in both emerging and established telecommunications markets around the world. Telesail enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks.
For more information about Telesail, visit the company's Web site at <http://www.telesail.com>.

Order Information

TSCOM TP3500 OLT Series

TP3508 EPON OLT

TP3508	1U,19-inch cabinet ,provides 8 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, single power supply, AC90-264V
TP3508-2AC	1U,19-inch cabinet ,provides 8 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, dual power supply, AC90-264V
TP3508-DC	1U,19-inch cabinet ,provides 8 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, single power supply, DC36-72V
TP3508-2DC	1U,19-inch cabinet ,provides 8 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, dual power supply, DC36-72V

TP3512 EPON OLT

TP3512	1U,19-inch cabinet ,provides 12 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, single power supply, AC90-264V
TP3512-2AC	1U,19-inch cabinet ,provides 12 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, dual power supply, AC90-264V
TP3512-DC	1U,19-inch cabinet ,provides 12 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, single power supply, DC36-72V
TP3512-2DC	1U,19-inch cabinet ,provides 12 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, dual power supply, DC36-72V

TP3516 EPON OLT

TP3516	1U,19-inch cabinet ,provides 16 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, single power supply, AC90-264V
TP3516-2AC	1U,19-inch cabinet ,provides 16 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, dual power supply, AC90-264V
TP3516-DC	1U,19-inch cabinet ,provides 12 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, single power supply, DC36-72V
TP3516-2DC	1U,19-inch cabinet ,provides 12 fix EPON interfaces(without OLT SFP optical module), 4 100/1000Base- FX interfaces, 4 GE TX/SFP combo interfaces, 1 console port, 1 out-of-band management 10/100 Base-TX port, optional 2 10G SFP+ uplink ports, dual power supply, DC36-72V

Telesail Technology Co., Ltd

3F,TAIWEI Tower, No. 31 Jiancai West St.
Haidian District, Beijing, China 100096
Email : sale@telesail.com
Tel: +86 10 8291 2638
Fax: +86 10 5141 7010
Web Site: <http://www.telesail.com>

About Technology Co., Ltd

Telesail Technology is professional in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless,transmission solutions to operators in both emerging and established telecommunications markets around the world. Telesail enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks.

For more information about Telesail, visit the company's Web site at <http://www.telesail.com>.