

TSCOM TP1704M

COST-EFFECTIVE GEPON CUSTOMER PREMISE DEVICE

Integrated With 1GE, 3-Port 10/100 Base-T Switch, 1 CATV RF, Wireless Delivers High Speed Data Services Over Gigabit Ethernet Passive Network(Gepon)



TSCOM TP1704M EPON ONU

- FULL LEEE802.3/802.3AH COMPLIANCE
- COMPACT CHASSIS
- SERVICE SUPPORTED:

VOIP, IP VIDEO AND DATA

- MUTLPLE SUBSCRIBER/ MULTIPLE
 SERVICE SUPPORT FROM SINGLE ONU
- 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
- CIRCUIT TESTING AND LOOP BACKS

FOR TELEPHONY SERVICES

Telesail provides TP1704M⁻ ONU supporting cost-effective GEPON customer premise solutions designed for single indoor residential applications. The solutions provide 1000Mbps broadband services to a connected subscriber's gateway and/or computers. The TP1704M provide 3FE,1GE integrated with wireless and built-in CATV module for multi-service networks, and are configured and managed remotely via the Telesail product family (OLT).

The ONU TP1704M provides an uplink to the central office through its GEPON port, and LAN connectivity to the individual residential user or business subscribers via its 10/100/1000Mbps Ethernet port. A future-proof, Fiber To The Home (FTTH) solution, the ONU TP1704M is a critical element in the successful delivery of multimedia video, voice and data over a single optical fiber.

Using 802.11n wireless technology, Wi-Fi enabled computers and devices can wirelessly connect to the TP1704M ONU and share a single incoming Internet connection. With four additional Ethernet LAN ports, you can connect to your network Ethernet-enabled devices.

KEY BENEFITS

- Full IEEE 802.3/802.3ah compliance
- Wire-speed Layer 2 switch, in full bidirectional data rate on each port
- "Plug-and-play" via auto-discovery and configuration
- Multiple subscriber/Multiple services support from single ONU
- Hardware efficiency:Multiple services from any Ethernet port
- IGMP Snooping, Multicast VLAN, Port isolation
- Support 802.1d STP, 802.1w RSTP
- Secure access via Access Control List (ACL) on L2-L7
- IEEE 802.3x flow control for full-duplex,back pressure for half-duplex
- Advanced QoS functions enable billing by Service Level Agressment
- Remote management with faciltates activation and diagnostics, advanced OAM functions
- Quick installation and turn-up via pre-provisioning of the ONU
- Flexible installation, long reach operationg range, temerature hardened design
- Standards compliant

Specification



- Dimensions
 165 mm(W) x 115 mm (D) x 30mm(H)
- Weight: <0.5kg

Power and Environmental

- Power Consumption:<10W
- Power
 DC12V/1A (external adaptor power supply)
- Operating Requirement
 0°C to +45°C ambient air temperature
 10% to 85% operating humidity
 (non condensing)
- Storage Requirement
 -40°C to +85°C ambient air temperature
 5% to 95% humidity
 (non condensing)

Architecture

- Compact chassis
- 1 fix ONU EPON interface
- 1 10/100/1000 Base-T interface
- 3 10/100 Base-T interface
- 1 CATV RF interface (British Standard)
- 802.11b/g/n, 300Mbps

CATV RF

- 75Ω, F style (CATV connection) British standard
- Output level: >=70dBuV@-15~-5dbm
- CATV optical interface: SC/APC

PON Optical Characterstics

- IEEE 802.3ah compliant
- PRC Communication Industry Standard (YD/T 1475-2006)
- SFF optical module
- SC/UPC optical PHY
- Tx:1310nm Rx:1490nm
- 20km distance
- Splits per OLT port Max: 1:64
- Tx Power:+0dbm ~ +4dbm
- Rx Sensitivity:-27dbm

Telesail Technology Co., Ltd

3F,TAIWEI Tower, No. 31 Jiancai West St. Haidian District, Beijing, China 100096 Email : sale@telesail.com Tel: +86 185 8842 7281 Fax: +86 719 8243 163 Web Site: http://www.telesail.com

Layer 2 switching Functions

- STP/RSTP
- Port based Vlan, IEEE802.1Q with 4K VLANs handling
- VLAN Stacking(QinQ), selective QinQ
- IEEE 802.3ad link aggregation(LACP)
- IEEE802.3x in full duplex, back pressure in half duplex,Head of Line
- MAC management(Learning control, limit and aging) support
- EAPS loop circuit protection
- Ethernet II, Ethernet-SNAP

Multicast

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

Network 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
- Dying-Gasp

Quality of Service (QoS)

- 4 CoS queuing
- IEEE 802.1 p and DSCP PRI Mark/remark
- SP and WRR congestion management
- Classification based Traffic Metering, Shaping and Marking
- CAR

WiFi

- 802.11b/g/n
- MIMO, max rate up to 300Mbps
- Multi-SSID
- SSID encryption

Management

- Web-enabled GUI based local configuration
- FTP/TFTP,Telenet,Console interface with CLI
- SSHv1/v2,TR069,SNMP
- ONU Remote Upgrade and Management
- Environmental monitoring
- Local or the server's syslog log

Safety Compliance

- CE marking
- FCC Class A
- ROHS5,CCC
- VCCI Class B
- EN 60950-1
 - UL 60950-1

Order Information TSCOMTP1704M - ONU

TP1704M

FTTH/O ONU, 1 EPON interface (SC/APC), 1CATV optical interface(SC/ APC),1GE, 3 FE, 1RF interface, external antenna WiFi,plastic hull, DC12V/1A, external adaptor

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

