

TSCOM GP1704E

COST-EFFECTIVE GPON CUSTOMER PREMISE DEVICE

*Integrated With 1GE, 3-Port 10/100 Base-T Switch
Delivers High Speed Data Services Over Gigabit-Capable Passive
Network(GPON)*



TSCOM GP1704E
GPON ONU

- **FULL ITU-T G.984/G.988 COMPLIANCE**
- **COMPACT CHASSIS**
- **802.11N TECHNOLOGY FOR EXTREME PERFORMANCE AND COVERAGE**
- **SERVICE SUPPORTED:
VOIP, IP VIDEO AND DATA**
- **MUTLPLE SUBSCRIBER/ MULTIPLE SERVICE SUPPORT FROM SINGLE ONU**
- **INDIVIDUALIZED BILLING PER SERVICE LEVEL AGREEMENT**
- **VLAN MANAGED SERVICES WITH PRIORITY QOS PROCESSING**
- **REMOTE PROVISIONING AND MANAGEMENT**
- **ADVANCED SECURITY**
- **CIRCUIT TESTING AND LOOP BACKS FOR TELEPHONY SERVICES**

Telesail provides GP1704E ONU supporting cost-effective GPON customer premise solutions designed for for single indoor residential applications. The solutions provide 1000Mbps broadband services to a connected subscriber's gateway and/or computers. The GP1704F provide 3FE,1GE ,WiFi with advanced L2 functionality for Data and IPTV video services, and are configured and managed remotely via the Telesail product family (OLT).Multi-Dwelling Unit elements are also available to manage networking in areas as vast as apartment buildings, business units and campus settings.

Using 802.11n wireless technology, Wi-Fi enabled computers and devices can wirelessly connect to the GP1704E ONU and share a single incoming Internet connection. With four additional Ethernet LAN ports, you can connect to your network Ethernet-enabled devices.

The ONU GP1704E provides an uplink to the central office through its GPON 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 GP1704E is a critical element in the successful delivery of multimedia video, voice and data over a single optical fiber.

The GP1704E supports static IP, Dynamic IP, as well as PPPoE connections,and works with applications such as online gaming and VPN connections with no additional configuration. The GP1704E is easily upgradeable, making it future-proof for both end-users and service providers.The GP1704E provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.It brings high-speed wireless Internet connection to a home or office. It is suitable for both residential (in-home) and commercial (offices, apartments, hotels, warehouses) network applications.

Specification

Physical

- Dimensions
140mm(W) x105 mm (D) x 30 mm(H)
- Weight: <0.5kg

Power and Environmental

- Power Consumption:<8W
- Power
DC12V/1A
- 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 GPON interface
- 1 10/100/1000 Base-T interface
- 3 10/100 Base-T interface
- 802.11b/g/n, 300Mbps

Optical Characteristics

- ITU-T G.984/G.988 compliant
- SFF optical module
- SC/PC optical PHY (single-mode fiber)
- Tx:1310nm Rx:1490nm
- Downlink 2.5Gbps / uplink 1.25Gbps
- 20km distance
- Tx Power:+0dbm ~ +4dbm
- Rx Sensitivity:-27dbm

WiFi

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

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
- 8K MAC table support
- 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

Management

- Web-enabled GUI based local configuration
- FTP/TFTP,Telnet,Console interface with CLI
- RMONv1, group 1, group 2, group 3 and group 9
- SSHv1/v2
- 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

TSCOM GP1704E - ONU

GP1704E

FTTH/O ONU, 1 GPON interface (SC/UPC), 1GE, 3 FE, plastic hull, external WiFi, DC12V/0.5A, external adaptor

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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>