FIBERTECHNIC FTECH G-01 GPON ONU ONT
1GE + 1GPON SC/APC ROUTER/BRIDGE

▶▶ Ftech G-01 GPON ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTX to provide the dataand video service based on the GPON network.

▶▶ GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. GPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

▶▶ Ftech G-01 provide one GE auto-adapting Ethernet ports. The Ftech G-01 features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video services. Therefore, the Ftech G-01 provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent.
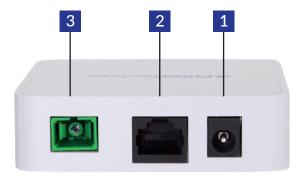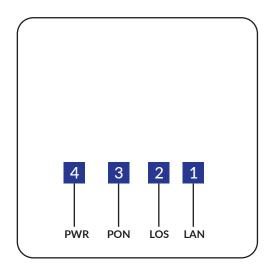
CE
Product ID: 7743

▶▶ **Functional features:**
- Compatible with ITU-T G.984.1/2/3/4
- Support downlink rate 2.448Gbit/s, uplink rate is 1.244Gbit/s
- Support 32 TCONT, 128 GEMPORT
- Support bidirectional FEC, supports the RS (255, 239) FEC decoding
- Support AES128 encryption and decryption functions with G.984 standard
- Support DBA bandwidth allocation
- Support three layer routing functions
- Support PLOAM, embedded OMCI management with G.984 standard
- Support Dying-Gas detection and reporting
- Support rogue ONU detection
- Support GPON energy saving of G987.3 protocol
- Support Tag/Untag Ethernet frame of 802.1 and Q 802.3 standard, support QinQ
- Support CTC3.0, flexible tag processing
- Support for flexible flow classification, maximum 520 flow classification rules
- Support link error monitoring and loop monitoring
- Support a variety of multicast forwarding mode, support multicast replication
- Auto-negotiation and manual settings of Ethernet supporting rate, duplex mode
- UNI interface supports STP/RSTP protocol
- Provide QoS guarantees for different priority business through SLA restraining, Policing, queue management scheduling / congestion avoidance, discarding management mode
- Support flow control based on entrance , choose Pause frame reaction pressure to Packet loss for the business beyond
- Support HQoS function

1	Power On/Off
2	LAN Port
3	Optical Port

1	LAN port status
2	Optical signals status
3	ONT Register
4	Power status

	INDICATOR		DESCRIPTION
1	LAN	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
2	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
3	PON	ONU Register	On: Success to register to OLT; Blinking: In process of registering to OLT;
4	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

SPECIFICATION

ITEM		DESCRIPTION
Interface	PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate：2.488Gbps Upstream Data Rate：1.244Gbps SC/APC single mode fiber 28dB Link loss and 20KM distance with 1:128
	Ethernet Interface	1*10/100/1000M auto-negotiation Full Duplex / Half-Duplex RJ45 Connector Auto MDI/MDI-X Transmission Distance 100 Meter
	Power Interface	12V DC power supply
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5～5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
	Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s; Upstream 1.244Gbit/s Ethernet: 1000Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Management	Management Mode	Standard compliant OMCI interface as defined by ITU-T G.984.4 Support WEB management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Shell	White plastic casing
	Power	External 12V/0.5A DC power supply adapter Power consumption: <3W
	Dimensions	Item Dimension：78mm(L) x78mm(W) x25mm (H) Item weight：0.1kg
	Environment	Operating Temperature：0～50℃ Storage Temperature：-40～85℃ Operating Humidity：10%～90%(Non-condensing) Storage Humidity：10%～90%(Non-condensing)

▶▶ Application:
- Solution：FTTH
- Business：Broadband Internet

PRODUCT NAME	PRODUCT MODEL	DESCRIPTIONS
Data type ONU	Ftech G-01	1*10/100/1000M Ethernet interface, 1 GPON interface, plastic casing, external power supply adapter

⇛FiberTechnic® cyberteam®