

LGPONU-1RJ45

Lightem LGPONU-1RJ45 is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data and video service based on the GPON network. It is based on ZTE high-performance xPON access chip. The chip supposes three mode: GPON/EPON/P2P, comply with the GPON standard of g.984, g.983, 802.3-2005, CTC EPON equipment technical requirements, have good xPON interoperability compatibility. It provide one GE auto-adapting Ethernet ports. The LGPONU-1RJ45 features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video services. Therefore, it provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the OLT.



FEATURES

- Fully compatible with ITU-T G.984.1/2/3/4
- Support downlink rate 2448Gbit/s, uplink rate is 1.244Gbit/s
- Support 32 TCONT, 256 GEMPORT
- Support bidirectional FEC, supports the RS (255, 239) FEC decoding
- Support AES128 encryption and decryption functions with G.984 standard
- Support SBA and DBA bandwidth allocation
- 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 CTC2.1, TR156 requirements of 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

SPECIFICATIONS

Interface	
<i>PON Port</i>	1x GPON port, FSAN G.984.2 standard, Class B+
	Downstream Data Rate: 2.488Gbps
	Upstream Data Rate: 1.244Gbps
	SC/PC single mode fiber
	28dB Link loss and 30KM distance with 1:128
<i>Ethernet Port (LAN)</i>	1x GE Auto-negotiation RJ45 ports
	Full Duplex / Half-Duplex
	RJ45, Auto-MDI/MDI-X
	Transmission Distance: 100 Meter
<i>Power Supply Port</i>	12V DC input
<i>Management</i>	
<i>Network Management</i>	Standard compliant OMCI interface as defined by ITU-T G.984.4
	Support WEB management

<i>Function</i>	Status monitor, Configuration management, Alarm management, Log management
<i>Environmental Specifications</i>	
<i>Shell</i>	Plastic casing
<i>Power</i>	External 12V 0.5A AC/DC power supply adapter
	Power consumption: <2W
<i>Dimensions</i>	110mm (L) x 70mm(W) x 30mm (H), 0.1kg
<i>Environment</i>	Operating Temperature: 0 ~ 50°C
	Storage Temperature: -40 ~ 85°C
	Operating Humidity: 10% ~ 90% (Non-condensing)
	Storage Humidity: 5% ~ 95% (Non-condensing)

ORDERING INFORMATION

PN	DESCRIPTION
LGPONU-1RJ45	1xGE Ethernet interface, 1x GPON interface, plastic casing