PICOTEL

PU-E840

➕ Brief Views

PU-E840 EPON ONU is new PICOTEL product for broadband access market based on the introduction of EPON technology passive optical network terminal products. Used with EPON OLT together to provide a complete broadband access solution.

EPON technology is a kind of emerging technology which takes advantage of PON technology and Ethernet technology also is a kind of point to multi-point network technology. OLT through the passive optical network to connect multiple ONU with single fiber bidirectional technical can rarely used fiber resources to meet the operators of the multi-user access requirements.
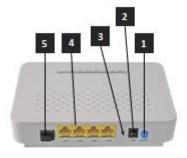
PU-E840 fully meet IEE802.3ah and CTC3.0 standard protocol. It has good third-party compatibility to work with the third party OLT, It supports 1Gbps transmission rate up and down and provides users with good QOS, flexible bandwidth allocation of Ethernet services and IP integrated service.
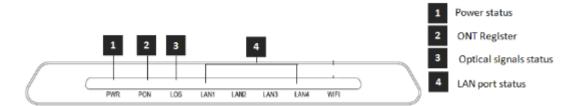
✦ Functional Feature

- Support port-based rate limitation and bandwidth control;

- In compliant with IEEE802.3ah Standard

- Up to 20KM transmission Distance

- Support data encryption, group broadcasting, port Vlan isolation ,etc.

- Support Dynamic Bandwidth Allocation (DBA)

- Support ONU auto-discovery/Link detection/remote upgrade of software;

- Support port mode of VLAN configuration

- Support power-off alarm function ,easy for link problem detection

- Support broadcasting storm resistance function

- Support port isolation between different ports

- Support port flow control

- Support ACL and SNMP to configure data packet filter flexibly

- Specialized design for system breakdown prevention to maintain stable system

- Support software online upgrading

- EMS network management based on SNMP ,convenient for maintenance

✦ Product interface and LED definitions

1	Power On/Off Button
2	DC Power Port
3	Factory Reset
4	LAN Port
5	Optical Port

Indicator			Description
1	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;
2	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
3	LOS	EPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
4	LAN1-4	LAN Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;

Specification

Item	Parameter
PON Interface	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC/UPC single-mode fiber split ratio: 1:64 Transmission distance 20KM
User Ethernet Interface	4*10/100M or 4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance

PICOTEL PU-E840

Power Interface	An external 12V DC 0.5A power supply adapter
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0～4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm
Data Transmission Parameter	PON Throughput: Downstream 980Mbps; Upstream 950Mbps Ethernet: 100Mbps or 1000Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG，VLAN translation Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support loop detection
Network Management	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support EMS management through OLT and Telnet Local management
Management Function	Status monitor, Configuration management, Alarm management, Log management
Shell	Plastic casing
Power consumption	5W
Physical Specifications	Item Dimension：160mm(L) x 120mm(W) x 32.5mm (H) Item weight：0.2kg
Environmental Specifications	Operating temperature: 0 to 50℃ Storage temperature: -40 to 85℃ Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)