

PICOTEL PU-E811

PU-E811



🖶 Brief Views

Picotel PU-E811 is fiber to the home multi service access EPON ONU. It's based on the mature, stable, high cost performance EPON technology and has gigabit Ethernet switching, WDM and HFC technology. Picotel PU-E811 has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the IEEE802.3ah requirements and have good compatibility with third party manufacturers OLT.

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.

It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

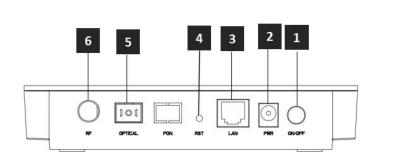
Functional Feature

- Support port-based rate limitation and bandwidth control;
- In compliant with IEEE802.3ah Standard
- Up to 20KM transmission Distance
- Support data encryption, group broadcasting 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

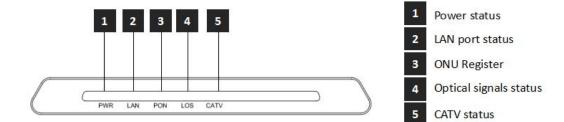


- Support port flow control
- Support ACL to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNMP ,convenient for maintenance

Product interface and LED definitions







Indicator			Description
1	PWR	Power status	On: The ONU is power on Off: The ONU is Power off
2	CATV	CATV status	On : CATV optical normal Off : The CATV signals are not received
3	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
4	LOS	EPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
5	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT Off: Failed to register to OLT;



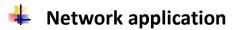
Specification

ltem	Parameter
	1 EPON optical interface
	Meet 1000BASE-PX20+ standard
	Symmetric 1.25Gbps upstream/downstream
PON Interface	SC single-mode fiber
	split ratio: 1:64
	Transmission distance 20KM
	1*10/100/1000M auto-negotiation
	Full/half duplex mode
Lissa Ethernet	RJ45 connector
User Ethernet	Auto MDI/MDI-X
Interface	100m distance
	1 RF output
	Female F-Type Connector
Power Interface	12V DC Power supply
	Wavelength: Tx 1310nm, Rx1490nm
DON	Tx Optical Power: 0 \sim 4dBm
PON	Rx Sensitivity: -27dBm
Optical	Saturation Optical Power: -3dBm
Parameter	Connector Type: SC
	Optical Fiber: 9/1254m single-mode fiber
	PON Throughput: Downstream 980Mbps; Upstream 950Mbps
Data Transmission	Ethernet: 1000Mbps
Parameter	Packet Loss Ratio: <1*10E-12
	latency: <1.5ms
	Layer 2 wire speed switching
	Support VLAN TAG/UNTAG, VLAN translation
Business	Support Port-based speed limitation
Capability	Support Priority classification
	Support storm control of broadcast
	Support loop detection
Network	Support IEEE802.3 QAM, ONU can be remotely managed by OLT
Management	Support Remote management through SNMP and Telnet
Wanagement	Local management
Management	Status monitor, Configuration management, Alarm management,
Function	Log management
Shell	Plastic casing
Power	<5W, 12V/0.5A power supply adapter
Physical	Item Dimension: 160mm(L)*120mm(W)*32mm(H)
Specifications	Item weight: 0.3kg
	Operating temperature: 0 to 50°C
Environmental	Storage temperature: -40 to 85°C
Specifications	Operating humidity: 10% to 90%(Non-condensing)
opechications	Storage humidity: 10% to 90%(Non-condensing)
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∔ CATV

ltem	Parameter
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-18dBm~OdBm
RF frequency	47MHz~1000MHz
RF output lever	≥78dBuV (@-12~-2dBm@85MHz)
AGC control accuracy	<±1db
Flatness	<±1.5db
CNR	>41dB (@-10dBm@DS22 Channel)
CSO	>60dBc (@-10dBm@DS22 Channel)
СТВ	>60dBc (@-10dBm@DS22 Channel)
RF output return loss	>14dB
RF impedance	75Ω
AGC function	Support



Typical Solution: FTTH Typical Business: INTERNET

