PU-E910

🔅 Overview

Picotel PU-E910 data type ONU is one of the EPON 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 EPON network.

EPON is the latest generations of access network technology. IEEE802.3ah is the standard protocol of EPON. The EPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. EPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. EPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. EPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

Picotel PU-E910 provide one GE auto-adapting Ethernet ports. The PU-E910 features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video services. Therefore, the Picotel PU-E910 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.

- Full compatible with IEEE802.3ah

- Support port-based rate limitation and bandwidth control

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

- Support broadcasting storm resistance function

- Support rogue ONU detection

- Support three layer routing functions

- 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

1	DC Power Port
2	LAN Port
3	PON Optical Port

1	LAN Port Status
2	Optical Signal Status
3	ONU Register Status
4	Power Status

POWER   PON   LOS   LAN

PICOTEL PU-E910
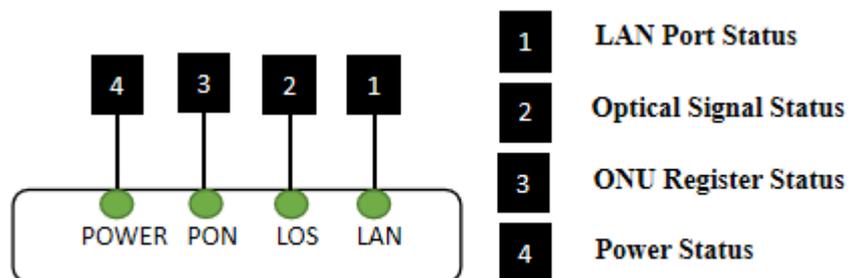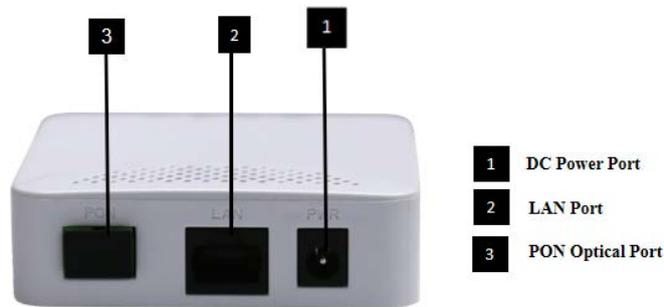
| Indicator			Description
1	LAN	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
2	LOS	XPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
3	PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: Failed to register to OLT or no normal optical signal input;
4	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;

Specification

Item	Parameters	Specification
Interface	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
	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 supply power
Performance Parameters	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: 1000Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Network Management	Network Management	QAM, WEB, Telnet
	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)

✚ Network Application

✧ Solution：FTTH

✧ Business：Broadband Internet
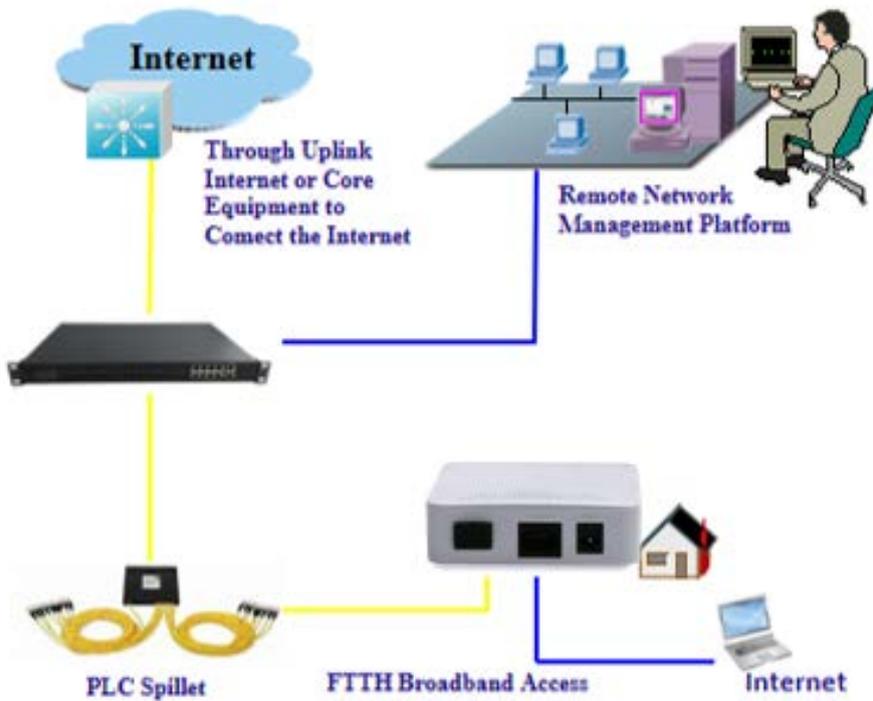
✚ Ordering information

Product Name	Product Model	Descriptions
1GE EPON ONU	Picotel PU-E910	1*10/100/1000M Ethernet interface, 1 EPON interface, plastic casing, external power supply adapter