

SPU-E420-BR

EPON ONU



Overview

SPU-E420-BR series is SOPTO's for broadband access market based on the introduction of EPON technology passive optical network terminal products. It's with EPON OLT are used 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.

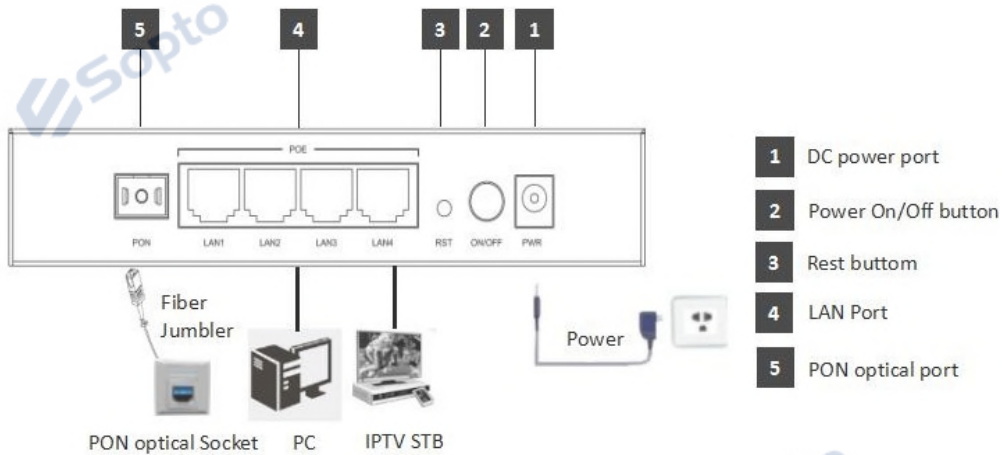
SPU-E420-BR series fully meet IEEE802.3ah and CTC3.0 standard protocol. It has good third-party compatibility to work with the third party OLT, It supports 1Gbps transmission rate up and down and provides users with good QOS, flexible bandwidth allocation of Ethernet services and IP integrated service.

Features

- 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 separation ,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



Indicator		Description
PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
LOS	EPON optical signals	On:Optical power lower than receiver sensitivity ; Off: Optical in normal
LANn	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 single - mode fiber split ratio: 1:64 Transmission distance 20KM
User Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
Power Interface	12V DC Power supply An external 12V 0.5A AC/DC power supply adapter
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0 ~ 4dBm Rx Sensitivity: - 27dBm Saturation Optical Power: - 3dBm Connector Type: SC Optical Fiber: 9/125qm single - mode fiber
Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Ethernet: 100Mbps or 1000Mbps Packet Loss Ratio: 1×10^{-12} latency: <math>< 1.5\text{ms}</math>
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG , VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support loop detection



Network Management	<p>① Support IEEE802.3 OAM, ONU can be remotely managed by OLT : Support OLT query ONU basic information; ONU link fault report; ONU Layer 2 switch configuration such as Vlan</p> <p>② Local Web management</p>
Management Function	Status monitor, Configuration management, Alarm management, Log management
Shell	Black metal casing
Power	Power consumption <5W, 12V/0.5A power supply adapter
Physical Specifications	<p>Item Dimension : 158mm(L) x 106mm(W) x 30mm (H)</p> <p>Item weight : 0.4kg</p>
Environmental Specifications	<p>Operating temperature: 0 to 50°C</p> <p>Storage temperature: -40 to 85°C</p> <p>Operating humidity: 10% to 90%(Non-condensing)</p> <p>Storage humidity: 10% to 90%(Non-condensing)</p>

Application

- Typical Solution: FTTH, FTTO
- Typical Business: INTERNET, IPTV, IP Camera

Network Construction

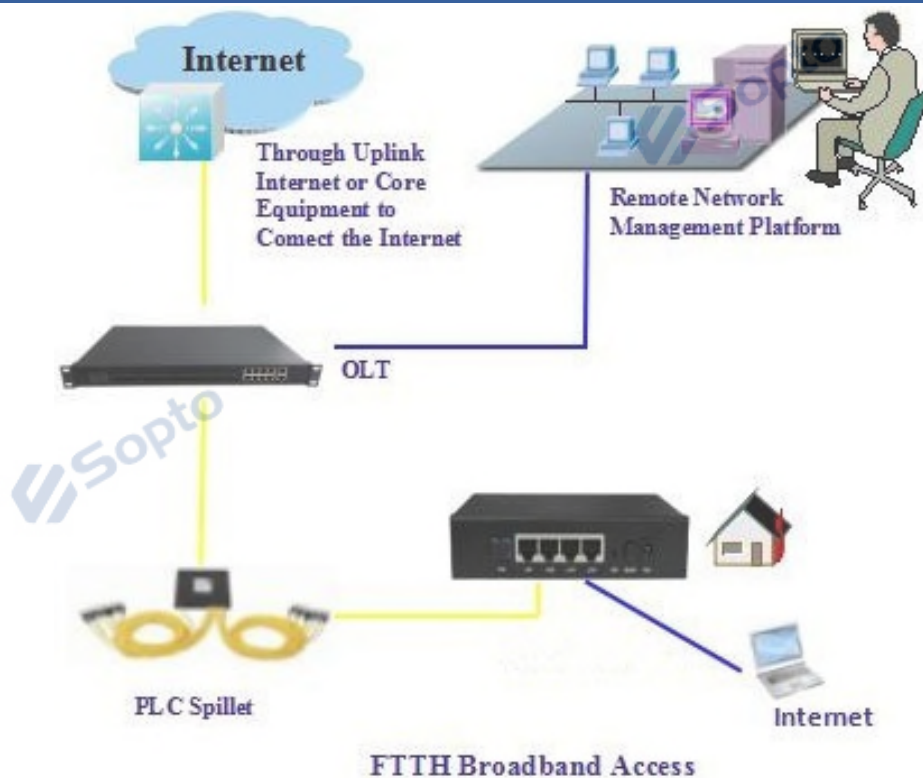


Figure: Application Diagram

Ordering information

Product Name	Product Model	Descriptions
4FE SFU type	SPU-E420-BR	4*10/100/1000M Ethernet interface, 1 EPON interface, black metal casing, external power supply adapter

Note: If you need more customized services, please contact us.

E-mail: sales@sopto.com

Web : <http://www.sopto.com>