XPON Multi-service Broadband Access ONT

AC-FIB-XPON-1PV1

Product Overview

AC-FIB-XPON-1PV1 is the Acconet-developed intelligent home gateway oriented for the integrated multi-service network.

AC-FIB-XPON-1PV1 is compatible with EPON and GPON networks: complied with the international standard ITU-T G.9844/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T 1475-2006, and China Telecom EPON/GPON Technical Requirement CTC. Standing out with great interoperability and operability, AC-FIB-XPON-1PV1 can interconnect well with OLTs of mainstream manufacturers in the industry.



Product Characteristics

Excellent Access Capacity

GPON: supports the PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:128 splitting ratio. The covering radius of the network can reach to 20km.
EPON: supports the PON transmission rate of downlink 1.25Gbp/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:64 splitting ratio. The covering radius of the network can reach to 20km.

Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONU, Acconet has developed techniques including VLAN, STP, port isolation, ACL, QoS, security filtering and Broadcast Storm Control.

High Service Control Capability

AC-FIB-XPON-1PV1 supports DBA and Rate-Limit. AC-FIB-XPON-1PV1 series also supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 2.5Gbps (GPON) and 1.25Gbps (EPON) bandwidth resource appropriately. In addition, the QOS function of AC-FIB-XPON-1PV1 guarantees a reliable service quality and service priority.bandwidth resource appropriately. It also supports QOS function, which guarantees a reliable service quality and service priority.

Rich OMCI&OAM Function

AC-FIB-XPON-1PV1 supports the standard OMCI defined by ITU-T, standard OAM and extended OAM defined by telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OMCI and OAM defined by Acconet.

Complete Interaction Capacity

AC-FIB-XPON-1PV1 is complied with the international standard ITU-T G.984/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T 1475-2006, and China Telecom EPON/GPON Technical Requirement CTC. With great interoperability and operability, AC-FIB-XPON-1PV1 can interconnect well with OLT devices of mainstream manufacturers in the industry to minimize network construction costs. Automatic network switching enables smooth transition from EPON to GPON network.

Advanced Energy-saving Technique

AC-FIB-XPON-1PV1 supports the industry-leading “GreenTouch” architecture and “Smart@CHIP” technology to ensure energy saving and environmental protection.

GPON and EPON auto-adaptive

Efficient bandwidth usage and Ethernet services

The Splitting ratio up to 1:128

Model Lists

AC-FIB-XPON-1PV1

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- 1 SC/UPC
- 1 GE TX

System Performance

Item		AC-FIB-XPON-1PV1
Service interface		
PON ports		1 SC/UPC
UNI ports		1 GE
Optical power		TX power RX sensitive
Power supply		
AC adaptor	Input:	100-240V AC
	Output:	12V/0.5A
Max. consumption (W)		6
Appearance		
Chassis	Dimensions (WxDxH mm)	80 x 75 x 24
	Weight (Kg) (empty)	0.1
Package	Dimensions (WxDxH mm)	178 x 126 x 35
	Weight (Kg)	0 . 2
Environmental specifications		
Operating	Temperature	0~45°C
	Humidity	10%~85%(non-condensing)
Storage	Temperature	-40°C~85°C
	Humidity	5%~95%(non-condensing)
Accessories		
Parts		Power adaptor

Ordering Information

Model	Description
AC-FIB-XPON-1PV1	FTTH/O ONT, 1 XPON port (SC/UPC), 1 GE TX port, supporting PPPoE, plastic hull, external adaptor

Technical Specifications

Standards

- ITU-T G.984/G.988
- IEEE802.3ah
- GBT33845-2017,
- YD/T 1475-2006
- IEEE 802.1Q,
- VLAN

VLAN

- Port-based VLAN
- IEEE 802.1Q VLAN

EPON Service

- AES128 algorithm encryption
- MAC/Loid/Hybrid authentication

QoS

- Back pressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- Head Of Line (HoL) mechanism
- IEEE 802.1p, CoS
- 4 priority queues per port
- WR, SP and FIFO
- Rate limit

Management

- Web, TELNET, TR069, OMCI, OAM
- Software upgrade through TFTP/WEB/TR069/OLT

Security

- Limitation to the MAC addresses on the port
- Port protection
- Port storm control

Multicast

- IGMP-Snooping
- CTC defined dynamic multicast
- MLD-Snooping

Reliability

- Loop detect
- Dying-Gasp
- Type B dual homing protection