



PM720

EPON Multi-service
Broadband Access ONU

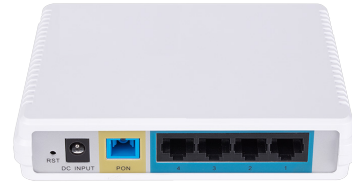
Layer 2 Multi-Service ONU featuring CATV Overlay and PoE model options for various deployment scenarios.



About the Product

PM720 Series is a new generation smart ONU for integrated multi-service broadband access networks. PM720 Series, involving multiple models, supports common enterprise broadband access services and PoE service.

PM720 Series is complied with the international standard IEEE 802.3ah and YD/T 1475-2006 and China Telecom EPON Technical Requirement CTC.



Key Features and Functions

- Excellent Access Capacity

PM720 Series supports the PON transmission rate of symmetric uplink/downlink 1.25Gbps. Connected with PBN OLT, it can realize 1:64 splitting ratio. The maximum transmission distance is 20km from the OLT to ONT.

- Secure Service Carrying Ability

PM720 series is supplied with standard security features including VLAN, STP, ACL, QoS, security filtering and Broadcast Storm Control.

- High Service Control Capability

PM720 Series supports DBA and Rate-Limit. It supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 1.25Gbps bandwidth resource appropriately. It also supports QoS function, which guarantees a reliable service quality and service priority.

- Rich OAM Function

PM720 Series supports the standard OAM defined by China Telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OAM defined by PBN.

- Advanced Energy-saving Technique

PM720 Series supports the "GreenTouch" architecture

- Varied Application Scenarios

The PM720-004GP model supports PoE standards 802.af/at

- The PM720-TV has an integrated RF receiver supporting CATV Overlay

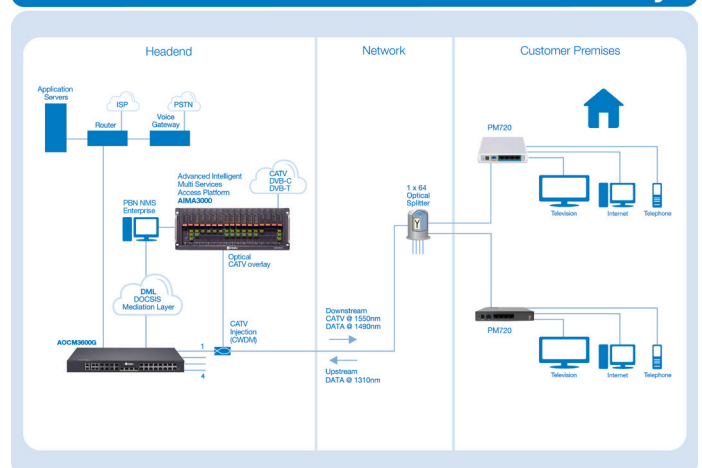
Typical Application

PM720 is ideal for use in commercial and residential installations when value is a priority. The application diagram shows a typical hybrid HFC-FTTx scenario with CATV overlay utilizing PBN's AIMA3000.

Due to its extensive feature set, PM720 is very competitive in fiber-to-the-home and hospitality businesses where IPTV and security applications are used in a dense short-haul deployment. Integrated into a single management system, the entire HFC-FTTx environment is able to be monitored and provisioned by the operator from a single screen.

For the CATV overlay components, PBN's pizzabox EDFA and LTE product line can be used, instead of the larger AIMA3000 carrier-grade RF headend solution, based on operator needs.

Advanced GPON Solutions with CATV Overlay



Specifications

Features

Standards	IEEE802.3ah PRC Community Industry Standard (YD/T 1475-2006) IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP ITU-T Y.1291
VLAN	4K VLAN Port based VLAN IEEE 802.1Q VLAN Tag/Transparent/Aggregation /Trunk/Translation mode VLAN CTC2.1/3.0 defined VLAN
QoS	Backpressure flow control (half-duplex) IEEE 802.3x flow control (full duplex) Against Head of Line mechanism IEEE 802.1p, CoS Four priority queues on each port WR, SP and FIFO queue schedule algorithms Port rate limit SLA and DBA
Management	Management modes including CLI, HTTP, SNMP and TELNET Software upgrade through TFTP and WEB, OAM, etc. Local or server syslog
EPON Security	Triple-churning algorithm encryption; MAC/Loid/Hybrid authentication
Network Security	MAC address number limit; MAC ACL, L2~4 IP ACL, Port protection, Port storm control
Multicast	IGMP-Snooping CTC defined dynamic multicast function MLD-Snooping Multicast group limitation Multicast fast-leave
Reliability	Loop detection; Dying-Gasp; TX/RX optical power alarm

Service Interface

	PM720-TV4F	PM720-004G	PM720-004GP
PON ports	1 SC/APC	1 SC/UPC	1 SC/UPC
Ethernet ports	1 GE + 3 FE TX	4 GE TX	4 GE PoE
RF Ports	1 x F-Type	N/A	N/A
Optical power			
TX power	0 ~ 4 dBm	0 ~ 4 dBm	0 ~ 4 dBm
RX sensitivity	< -27 dBm	< -27 dBm	< -27 dBm

System Capacity

	PM720-TV4F	PM720-004G	PM720-004GP
L2 Forwarding rate	1000 Mbps @ 1500 MTU	1000 Mbps @ 1500 MTU	1000 Mbps @ 1500 MTU
DRAM (MB)	128	128	128
Flash (MB)	128	128	128
MAC table	2K	2K	2K
VLAN ID	4K	4K	4K

Power Supply

	PM720-TV4F	PM720-004G	PM720-004GP
AC adaptor			
Input	100 ~ 240V AC	100 ~ 240V AC	100 ~ 240V AC
Output	12V/1A	12V/0.5A	Output: DC53.5V/1.2A
Max. consumption (W)	10	6	65 (with PoE)

Specifications

Physical Specifications

	PM720-TV4F	PM720-004G	PM720-004GP
Unit Dimensions (WxDxH mm)	200 x 150 x 38	130 x 100 x 28	170 x 98 x 28
Unit Weight (Kg)	0.3	0.2	0.6
Ship Dimensions (WxDxH mm)	290 x 202 x 54	256 x 114 x 46	250 x 230 x 55
Ship Weight (Kg)	0.5	0.3	0.8

Environmental Specifications

Operating Temperature	0 ~ 45 C	0 ~ 45 C	0 ~ 45 C
Operating Humidity	10% ~ 85% (non-condensing)	10% ~ 85% (non-condensing)	10% ~ 85% (non-condensing)
Storage Temperature	-40 ~ 85 C	-40 ~ 85 C	-40 ~ 85 C
Storage Humidity	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)

Accessories

Parts	Power adaptor		
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Order Details

PM720-TV4F-[XX]	FTTH/O ONU, 1 EPON port (SC/APC), 1GE+3FE TX ports, 1 RF interface (British Standard), plastic hull, AC220V external adaptor
PM720-004G-[XX]	FTTH/O ONU, 1 EPON port (SC/UPC), 4 GE TX ports, plastic hull, AC220V external adaptor
PM720-004GP-[XX]	FTTH/O ONU, 1 EPON port (SC/UPC), 4 GE TX ports, PoE, plastic hull, AC220V external adaptor

Options:

XX	Power Adaptor Type
CN	Power Adapter for China
EU	Power Adapter for Europe (not for use in UK/CH)
US	Power Adapter for USA

Module Lists

PM720-TV4F



- 1 SC/APC
- 1 GE + 3 FE TX
- 1 RF port

PM720-004G



- 1 SC/UPC
- 4 GE TX

PM720-004GP



- 1 SC/UPC
- 4 GE PoE