

AOCM3600 Series

GIGABIT EPON ACCESS SWITCH



About the Product

PBN's AOCM3600 GEAPON OLT enhances the compact OLT 1RU series with a high-density L3 device. Designed with growing customer requirements in mind, this simple device serves up to 1024 GEAPON subscribers while connecting to the uplink with 2x10GigE.

Full triple play services can be provided using IPTV Multicast or with PBN's AIMA3000 platform with a full spectrum CATV overlay. PBN's PM500-series ONUs allow cost-efficient connectivity for high-value SLA customers and standard residential subscribers.



Key Features

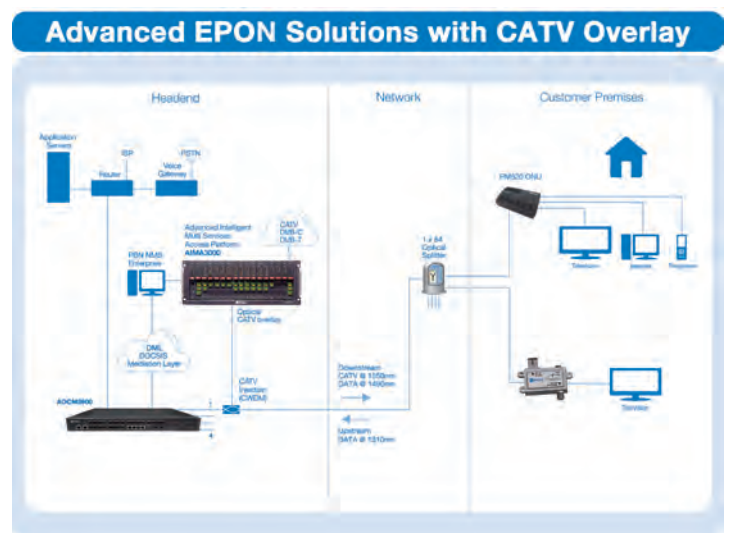
- Available with 8, 12 or 16 Passive Optical Network (GEAPON) ports in 1RU 19" rack-mount chassis
- Up to 2 x 10Gigabit Ethernet SFP+ based uplink ports
- True "Triple Play" service provisioning over IEEE802.3ah compliant PON, supporting up to 16 x 64 subscribers
- Supports SLA and DBA for carrier-class, multi-service applications like data, voice, and video
- Redundant swappable AC and DC power supply options available
- Allows for traffic classification, aggregation, and shaping for strict QoS enforcement
- Supports VLAN mapping with up to four priority queues and individual service policies for each LLID link
- Remotely upgradable firmware for new features and functionality improvement
- Sophisticated EPON System Manager for remote control, configuration, diagnostics, and provisioning via SNMP

Typical Application Diagram for a Tier-3 Environment

The compact AOCM3600-series OLTs are ideal for use in small installations or green-field deployments where cost-efficiency is essence priority. This application diagram represents a typical mixed HFC-FTTx scenario with CATV overlay utilizing PBN's AIMA3000 platform.

Based on actual growth of the P2MP FTTx subscriber, the AOCM3600 OLTs can be added as needed without a large base investment.

For the CATV overlay components, the larger AIMA3000 can be scaled based on operator needs to PBN's 1-RU EDFA and LTE product line.



Specifications

Features

Coupling ratio	1:64 (maximum)
Backplane bandwidth	128 Gbps
Interface	8, 12, or 16 GEAPON OLT SFP ports
IP routing	Static route, RIPV1/v2, OSPF, etc.
QoS	Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE p802.1p, CoS WRR, SP and FIFO SLA Limiting the uplink/downlink rate based on each ONU DBA
VLAN	Port-based VLAN 4K Active LANS Flexible QinQ QinQ
IEEE Standards	IEEE802.3ah IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP IEEE 802.3ad physical link static/dynamic aggregation (LACP) Ethernet – II, Ethernet-SNAP
Reliability	Unidirectional Link Detection (UDLD) Optical path protection of EPON Limiting the maximum number of users on each port Port isolation
Network security	Packet Storm Control Flow-based ACL access control function Transmission data encryption on the PON interface EPON Encryption

Configuration management

Various management modes such as CLI, Web Interface, SNMP, TELNET and cluster
RMONv1, group 1, group 2, group 3 and group 9
Upgrading the software and the bootrom through TFTP and FTP
Local or the server's syslog logs
Network testing tools such as ping and traceroute
Debug output

General

Mains power supply	Hot Swappable Dual Power Supply AC option: 90 to 264 V DC option: -36 to -72 V
Power consumption	8 Port: < 85 W 12 Port: < 95 W 16 Port: < 105 W
Operating temperature	8 Port: 0°C ~ +50°C 12 Port: 0°C ~ +45°C 16 Port: 0°C ~ +45°C
Storage temperature	-40°C ~ +80°C
Operating humidity	10% ~ 85% (non-condensing)
Storage humidity	5% ~ 95% (non-condensing)
Unit dimensions (W x D x H)	442.5 x 300 x 44 mm
Weight	2 kg

Order Details

AOCM3608-2x10GE	AOCM3600 OLT Series Switch, 8x GEAPON OLT SFP ports, 4x Gbps SFP ports, 4x 10/100/1000Mbit TX/Gigabit SFP combo ports, 2x 10Gbps SFP+ ports, PSU order separate
AOCM3612-2x10GE	AOCM3600 OLT Series Switch, 12x GEAPON OLT SFP ports, 4x Gbps SFP ports, 4x 10/100/1000Mbit TX/Gigabit SFP combo ports, 2x 10Gbps SFP+ ports, PSU order separate
AOCM3616-2x10GE	AOCM3600 OLT Series Switch, 16x GEAPON OLT SFP ports, 4x Gbps SFP ports, 4x 10/100/1000Mbit TX/Gigabit SFP combo ports, 2x 10Gbps SFP+ ports, PSU order separate
AOCM3600-PS-AC	AOCM3600 Power Supply Module, AC90~264 V, Maximum Power 150 W
AOCM3600-PS-DC	AOCM3600 Power Supply Module, DC-36~-72 V, Maximum Power 150 W

Associated Equipment

PM520	Triple-play high-speed Fiber Access Gateway
SFP-EPON-20-SCPC	SFP Plug-in, Gigabit Ethernet EPON - 1.25 Gbps, 20 km, TX 1490 nm, RX 1310 nm, SC/PC blue
NMS3-EPSM	FTTx provisioning and service management software

Accessories

Power Cable

PC-EU	Power Cable for Europe (not for use in UK)
PC-CN	Power Cable for China
PC-CH	Power Cable for Switzerland
PC-US	Power Cable for USA
PC-UK	Power Cable for UK
PC-AU	Power Cable for Australia

* PC-EU (Power Cable for Europe) is the default power cable. If you need a power cable for different regions, please add it in your order.