About the Product

PBN's AOCM3600 GEPON 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 GEPON 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 (GEPON) 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

<table>
<thead>
<tr>
<th>Coupling ratio</th>
<th>1:64 (maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backplane bandwidth</td>
<td>128 Gbps</td>
</tr>
<tr>
<td>Interface</td>
<td>8, 12, or 16 GEpon OLT SFP ports</td>
</tr>
<tr>
<td>IP routing</td>
<td>Static route, RIPV1/v2, OSPF, etc.</td>
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<tr>
<td>QoS</td>
<td>Backpressure flow control (half duplex)</td>
</tr>
<tr>
<td>VLAN</td>
<td>Port-based VLAN, 4K Active LANS, Flexible QinQ, QinQ</td>
</tr>
<tr>
<td>IEEE Standards</td>
<td>IEEE 802.3ah, 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</td>
</tr>
<tr>
<td>Reliability</td>
<td>Unidirectional Link Detection (UDLD), Optical path protection of EPON</td>
</tr>
<tr>
<td>Network security</td>
<td>Limiting the maximum number of users on each port, Port isolation, Packet Storm Control, Flow-based ACL access control function, Transmission data encryption on the PON interface, EPON Encryption</td>
</tr>
</tbody>
</table>

#### 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**
  - AC option: 90 to 264 V
  - DC option: -93 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 ~ +85°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 GEpon 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 GEpon 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 GEpon 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, SO/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.*