

# Casa Systems PON OLT-A: XGS-PON and NG-PON2

Winning and keeping broadband customers has never been tougher. Service providers face a range of competition in a business that requires rapid response but is still capital intensive. They need partners who are fast enough to get them ahead of their competition and committed to keeping them there, which is why more and more, leading providers depend on Casa Systems.

In the face of rising broadband demand and competition, service providers are evolving their Passive Optical Networks toward 10G+ symmetrical solutions. This evolution enables a range of residential, business and backhaul services over a common Optical Distribution Network using a mix of PON technologies. Next generation PONs will be leveraged for 5G / mobile backhaul services, for business customers using common infrastructure, and for MDU solutions.

Casa's PON OLT-A provides an adaptable solution as service providers evolve Passive Optical Networks. This single RU OLT will support either XGS-PON or NG-PON2 in a highly scalable platform. Routing and QoS are enabled directly in the OLT-A, reducing latency and jitter. Service providers can deploy Casa's OLT-A in the CO, or at the edge, including on premise at MDUs and enterprises.

When deployed as part of Casa's PON system, the OLT-A is managed by Casa's Axyom vOLT-M, which provides common management across multiple OLT-As, and enables service velocity through OpenFlow programmability of the OLT-As. Service providers enjoy the maximum in hardware reduction, simplified management, and high scalability with Casa's Axyom vBNG, vOLT-M, and OLT-A. The PON OLT-A can also be added as a stand-alone Casa solution in an existing GPON network to support adaptable evolution to next generation PON.



## Highlights

### Highly Scalable 1RU OLT for XGS-PON and NG-PON2

16 x 10G ports, 4 x 100G/40G QSFP28 ports per RU

### 300Gbps Forwarding

Layer 2 or Layer 3 forwarding at 300 Gbps (full duplex)

### Software Defined Access

Increase service agility and performance with OpenFlow, NETCONF, and OLT OMCI agents

### Local Routing and QoS

Routing and QoS directly from the PON OLT-A, reducing latency and jitter and reducing amount of hardware required at central location

## Features

<p><b>Ports</b></p>	<p>Switch Ports:</p> <ul style="list-style-type: none"> <li>• 16 x XGS-PON ports</li> <li>• 4 x QSFP28 100 GbE</li> </ul> <p>Management ports on port side:</p> <ul style="list-style-type: none"> <li>• 1 x RJ-45 serial console</li> <li>• 1 x RJ-45 100/1000BASE-T management 1 x USB Type A storage</li> </ul>
<p><b>Performance</b></p>	<ul style="list-style-type: none"> <li>• Switching Capability: 300 Gbps</li> <li>• Jumbo frames support up to 9 Kbytes</li> </ul>
<p><b>Physical and Environmental</b></p>	<ul style="list-style-type: none"> <li>• Dimensions (WxDxH): 43.8 x 60.9 x 4.35 cm (17.3 x 23.9 x 1.7 in)</li> <li>• Weight: 10 kg (23 lb)</li> <li>• Fans: Hot-swappable 5 + 1 redundant fans</li> <li>• Operating Temperature: 5°C to 40°C (41°F to 104°F)</li> <li>• Storage Temperature: -40°C to 40°C (-40°F to 104°F)</li> <li>• Operating Humidity: 5% to 85% non-condensing</li> <li>• LEDs:             <ul style="list-style-type: none"> <li>– QSFP28 Port LEDs: Link Status, Activity, Rate</li> <li>– Ethernet Management Port LED: Link Status, Activity</li> <li>– Console Port LED: Link Status</li> <li>– System LEDs: Diagnostic, Locator, PSU and Fan Status</li> </ul> </li> </ul>
<p><b>Power</b></p>	<p>PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC              Input Voltage: 90 to 240 VAC at 50-60 Hz or -36 to -72 VDC</p>
<p><b>Regulatory</b></p>	<ul style="list-style-type: none"> <li>• EMI             <ul style="list-style-type: none"> <li>– CE Mark</li> <li>– EN55022 Class A</li> <li>– EN55024</li> <li>– EN61000-3-2</li> <li>– EN61000-3-3</li> </ul> </li> <li>• FCC Part 15 Subpart B Class A</li> <li>• VCCI Class A</li> <li>• CCC</li> <li>• Safety             <ul style="list-style-type: none"> <li>– CB</li> <li>– UL/CU/NRTL</li> <li>– CCC</li> </ul> </li> <li>• Environmental:             <ul style="list-style-type: none"> <li>– Vibration: GR-63-CORE</li> <li>– Shock: GR-63-CORE, GR-1089-CORE Acoustic Level: 78 dB sound power at 26°C</li> </ul> </li> </ul>