MA5600T - Optical Line Terminal (OLT)

One platform to support high-performance GPON, next generation XG-PON1, and Active Ethernet (A/E) solutions for both residential and commercial Fiber-to-the-Premises applications.

Product Features

GPON, A/E, XG-PON1

11 RU, 19” rack mounting, 12” depth

21 slots: 14 slots for service boards, 2 slots for control boards, 2 slots for power interfaces, 2 slots for WAN uplink interfaces, 1 slot for GPIO

Large capacity: 1 Tbps backplane, non-blocking 20Gbps/slot load sharing, 400Gbps / 600MPPS load sharing switching capacity

Switch card: 200Gbps switch card with integrated 4p GbE (SFP) WAN uplinks

Service cards: 8-port GPON 2.5/1.25Gbps (SFP), 4-port XGAPON1 10/2.5Gbps, 16-port FE (SFP), 24p/48p GbE (SFP/CSFP)

Uplink cards: 2-port 10GbE (XFP), 2-port GbE (SFP)

Other cards: T1 TDM WAN, MPLS

Comprehensive L2/L3 Functions

- L2 Functions
  - L2 QoS with traffic classification and L2 forwarding policy
  - Standard VLAN, QinQ VLAN, VLAN stacking
  - Flexible QinQ VLAN tagging
  - DHCP Option 82 in L2 mode
  - E-LAN, E-Line

- L3 Functions
  - ARP, ARP Proxy
  - DHCP Relay, DHCP proxy
  - Static routing
  - Dynamic routing: RIP, OSPF, IS-IS, BGP, ECMP, PIM-SSM
  - Multicast: IGMP v2/v3, IGMP proxy, IGMP snooping, 4k multicast group
  - IPv6: Dual Stack

Management: OMCI, SNMP, CLI and XML

High Reliability

- WAN uplink redundancy: BFD, MSTP, LACP, RSTP
- Fiber redundancy by 50ms switchover: Type B protection
- Five-9s (99.99941%) Availability: Main Control Card, Power Card, PON port redundancy

Any Media & High Precision Clock

- Any Media Clock: T1/BITS/GPS, 1588v2, Sync-E
- 0.01ppm high-precision clock
- Built-in Stratum-3 clock in OLT

Key capabilities of MA5600T OLT include:

- Support for up to 7,168 GPON subscribers using 1:64 split
- Support for up to 672 GbE subscribers
- Support for 400Gbps total load-sharing switch capacity using dual 200Gbps switch fabrics
## Specifications and Performance Parameters

### MA5600T - Optical Line Terminal (OLT)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Working Voltage Range</td>
<td>-38.4 to -72 VDC</td>
</tr>
<tr>
<td>Power Consumption (fully loaded)</td>
<td>1850 W / 6300 BTU’s</td>
</tr>
<tr>
<td>Recommended Power</td>
<td>Dual uninterruptable 40A (maximum)</td>
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<tr>
<td>Dimensions</td>
<td>Height 19.25” (48.90cm), Width 17” (43.18 cm), Depth 12” (30.48 cm)</td>
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<tr>
<td>Fiber Management Tray / Air baffle</td>
<td>Height 5.25” (13.3 cm), Width 17” (43.2 cm), Depth 7” (17.8 cm), Front 5” (12.7 cm)</td>
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<tr>
<td>Weight</td>
<td>60lbs (27 kg) empty, 120 lbs (54kg) full loaded</td>
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<tr>
<td>Cooling</td>
<td>Front intake through replaceable air filter at bottom; rear exhaust through fan assembly at top</td>
</tr>
<tr>
<td>Environmental, Operating Temperature</td>
<td>-40C to 65C (-40F to 149F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40C to 70C (-40F to 158F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5% to 85%, non-condensing, Altitude: 197 ft (60 m) below sea level to 13,123 ft (4,000 m) above sea level</td>
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Huawei is a leading global provider of commercial telecom networks and is currently serving 45 of the world’s top 50 telecom operators to support the communication needs of one-third of the world’s population. The company is committed to providing innovative and customized products, services and solutions to create long-term value and growth potential for its customers.

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