

Compact, High-Performance 1U DSLAM/MDU ONU

- ✓ *High-Performance 1U DSLAM/MDU ONU*
- ✓ *8 Port VDSL2 30a (with ADSL2+ fallback)*
- ✓ *SLMS family member supporting industry-leading multimedia traffic management*
- ✓ *Fiber or Copper Active Ethernet Uplink supporting RSTP (802.w)*
- ✓ *WebGUI, CLI, SNMP Management*
- ✓ *Lockable indoor enclosure option*
- ✓ *Compact and low power*



The Zhone MX-160-8P provides next generation VDSL2 DSLAM/MDU ONU features in a compact form-factor that makes it easy and cost-effective to deliver uncompromised triple play services throughout serving area. Models are also available with 16 or 24 VDSL2 30a Ports.

This MX family product is designed for easy configuration and management via built-in Web Graphical Interface. It's compact design allows easy deployment in remote cabinets, telecom closets or any space constrained locations.

The MX-160-8P offers two uplink options; Fast/Gigabit Ethernet uplink (SFP) or a copper uplink (RJ45).

Zhone's MX-160-8P VDSL2 solution offers full-rate VDSL2 30a performance for packet-based service delivery. This low-power, fully programmable, high performance solution enables service providers to cost-effectively generate additional revenue through their triple-play offering, including the different iterations of video services emerging in the marketplace. As an end-to-end solution, Zhone offers VDSL2 CPE and CO products to offer high-speed, long reach and low cost solutions for multi-tenant and multi-dwelling unit (MxU), remote terminal and CO deployments.

Ease of Management

MX-160-8P provides simple yet powerful management facility via embedded Web GUI along with complete NMS integration.

Triple Play Services

MX-160-8P includes high-performance packet switching with advanced IP capabilities to deliver secure, reliable, and efficient voice, data, and video services. Now service providers can offer compelling bundles of multi-line voice, high-speed Internet access, and multi-set IP video (including HDTV) over their existing copper infrastructure.

MX-160-8P is defined by its ease of use and packet processing/switching capability to support rich triple-play services on each subscriber port.

Optical or Copper Transport

MX-160-8P provides a FE/GE SFP-based uplink port (RJ45 or SFP), supporting both copper and fiber, to provide simple cost-effective transport.

The easy-to-use Zhone Management System (ZMS) provides OSMINE-certified management and provisioning across the access network, from CPE to the Central Office. The MX-160-8P is fully remote managed, allowing carriers to reduce service turn-up intervals, reduce truck rolls, and ultimately, improve customer service.

Technical Specifications

Dimensions

- 1.5 in H x 10 in W x 6in D
- 3.8 cm H x 25.4 cm W x 15.2 cm D

Weight

- 1.2LB (0.54 kg)

Power

- 12VDC
- Optional US, UK, or EU power supplies

Interfaces

- Uplink Interfaces:
 - (1) SFP-based 100/1000Mbps Ethernet or (1) RJ45 100/1000Mbps Ethernet
- Subscriber Line Interfaces:
 - 8 VDSL2 30a (ITU-T G.993.2) RJ45 ports
- Serial craft management interface
- Port Status LEDs

Standards Support

- ITU-T G.993.2 (VDSL2)
- VDSL2 Bonding
- ITU-T G.992.5 (ADSL2+) Fallback
- ADSL2+ Bonding
- SELT/DELT
- IEEE 802.3 Ethernet
- IEEE 802.1p
- IEEE 802.1Q

Protocol Support

- IP host and gateway support
- RIP v1 (RFC 1058) RIP v2 (RFC 2453)
- RFC 1483/2684 encapsulation
- DHCP server (RFC 2131, 2132)
- DHCP Relay with Option 82
- Bridging 802.1D support
- VLAN 802.1p/q support
- Dense / sparse multicast support, IGMPv2
- Integrated access control and content protection
- RADIUS Authentication

Management

- In-band IP
- ZMS (Zhone Management System) via SNMP v2c for GUI and CORBA/XML Northbound interface
- Command Line Interface (CLI)

Bandwidth/Distance

- Data rates provisionable up to 100Mbps symmetrical

Regulatory Compliance

- Safety
 - CSA 22.2 No. 60950-1
 - EN 60950-1
 - IEC 60950-1
 - UL 60950-1
- EMC Emissions
 - FCC Part 15 Class A
 - EN 55022 Class A
 - ICES-003 Class A
 - VCCI Class A
- EMC Immunity
 - EN 300 386 v1.4.1
- Environmental
 - ETS 300 019-2-x
 - ISTA Transportation and Handling

Operating Requirements

- Operating Temperature: -40°F to 149°F (-40°C to 65°C)
- Storage temperature: -40°F to 149°F (-40°C to 65°C)
- Humidity: Up to 85%, non-condensing
- Altitude: -200ft to 16,500ft (-60m to 5,000m)

Ordering Information

Models

MX-160-LT-8P

MX-160-LT-8P-AC-US

MX-160-LT-8P-AC-UK

MX-160-LT-8P-AC-EU

Accessories

MX-160-8P-INDOOR-ENCLOSURE