Compact, High-Performance 1U IP DSLAM from eXpress Packet Family

- ✔ *High-Performance 1U IP DSLAM*

- ✔ *48 Port ADSL2+ with optional POTS Splitters*

- ✔ *Integrated IP Termination, VLAN*

- ✔ *Environmentally Hardened*

- ✔ *Optional Watertight OSP Enclosure for Pole, Pedestal, or Underground Deployment*

- ✔ *Fiber or, Copper Fed Dual 100/1000Mbps Uplinks with RPR or, 802.3ad**

- ✔ *WebGUI, CLI, SNMP Management*

The Zhone Raptor-XP provides next generation IP DSLAM features in a compact, hardened form-factor that makes it easy and cost-effective to deliver uncompromised triple play services throughout serving area. Models are available with 48 ADSL2 + Ports with option of integrated POTS splitters.

This eXpress Packet 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 and space constrained central offices.

The Fast/Gigabit Ethernet interfaces on XP family products can be configured as linear, RPR ring, or aggregated links. An OSP (outside plant) enclosure version enables pole-mount, pedestal, or underground deployment for even greater range and flexibility.

Ease of Management

Raptor-XP provides simple yet powerful management facility via embedded Web GUI along with complete NMS integration.

Triple Play Services

Raptor-XP includes high-performance packet processing 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.

Raptor-XP, eXpress Packet family product, is defined by its ease of use and packet processing capability to support rich triple-play services on each subscriber port.

Optical or Copper Transport

Raptor-XP provides dual 100/1000Mbps uplinks, supporting both copper and fiber, to provide simple cost-effective transport. The dual GigE ports allow daisy-chained linear or ring deployments, and on rings the Raptor-XP provides standards-based RPR support to ensure < 50msec restoration in the event of a ring fault.

End-to-End Access Management

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 MALC-XP is fully remote managed, allowing carriers to reduce service turn-up intervals, reduce truck rolls, and ultimately, improve customer service.

Technical Specifications

Dimensions

- 1.72in H x 17.31in W x 9.61in D
- 4.37cm H x 43.97 cm W x 24.41 cm D

Weight

- 18lbs (8kg)

Power

- DC: -43.75V to -62V
- Optional AC and Line Power Supplies

Interfaces

- Uplink Interfaces:
  - (2) 100/1000Mbps Ethernet (Copper or, Fiber) SFP slots
- Subscriber Line Interfaces:
  - 48 ADSL2+ (ITU G.992.5 A/B/M)
  - (2) 50-pin connectors for local loop DSL and POTS connections
- Serial craft interface
- Alarm Relay connections
- Narrowband Test Control and Access Ports

Standards Support

- ANSI T1.413 Issue 2
- G.994.1 (G.handshake)
- G.997.1 (physical layer management)
- G.992.1 (full-rate G.dmt)
- G.992.3 (ADSL2) Annex A
- G.992.5 (ADSL2+) Annex A, Annex M

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
- PPPoA to PPPoE Interworking, PPPoE Intermediate Agent
- RADIUS Authentication
- IEEE 802.3ad Link Aggregation*

Management

- In-band IP
- Out-band IP over 10/100BT Ethernet or V.24 RS-232 serial for async terminal
- ZMS (Zhone Management System) via SNMP v2c for GUI and CORBA IDL machine interface
- Embdedded Web Graphical Interface
- Command Line Interface (CLI)

Bandwidth/Distance

- Data rates provisionable up to 24Mbps
- Distances up to 24,000ft/7,320m

Regulatory Compliance

- Safety: UL 60950-1, CSA C22.2 No. 60950-1, AS / NZS 3260, TS 001
- Emissions: FCC Part 15 Class A, ICES-003 Class A, EN 55022A
- Immunity: NEBS GR-1089-Core level 3, EN 55024, EN 55082-1, T1.601-1992
- Environmental: NEBS GR-63-Core level 3, ETS 300 019-2-x, ISTA
- Network Certification: FCC Part 68, CTR-12, CTR-13, DOC CS-03, TSO 16, GR-57

Operating Requirements

- Operating Temperature: -40ºF to 149ºF (-40ºC to 65ºC)
- Storage temperature: -40ºF to 158ºF (-40ºC to 70ºC)
- Humidity: Up to 85%, non-condensing
- Altitude: -200ft to 16,500ft (-60m to 5,000m)

Ordering Information

Models

RAPTOR-XP-150A	Raptor XP, 48 Ports ADSL2+, 2 ports 100/1000Mbps (SFP)
RAPTOR-XP-151A	Raptor XP, 48 Ports ADSL2+, 2 ports 100/1000Mbps (SFP), 600 Ohm Splitters
RAPTOR-XP-152A	Raptor XP, 48 Ports ADSL2+, 2 ports 100/1000Mbps (SFP), 900 Ohm Splitters

Accessories

XP-AC-SUPPLY	Raptor/MALC XP AC Power Supply, 90-264 VAC, 48 VDC, 150W
XP-CO-LP-SHELF	Raptor/MALC XP Line Power CO Shelf 40-60VDC IN, +/- 190VDC OUT, w/ 24 channels
XP-RT-LP-UNIT	Raptor/MALC XP Line Power RT Unit +/- 190VDC IN, 40-60VDC OUT, w/ 5 channels

2008/01/22 16:51:03