

Raptor e Series

300 Mbps MIMO



Key Features

- Requires External Antenna(s)
- PtP, PtMP or Mesh
- MIMO, Up to 200 Mbps actual throughput
- PoE 802.3af/at (PoE, PoE+)
- SNMP technology ensures hassle free integration with existing networks
- 1-3 Ethernet ports
- 1-3 radios
- PoE injector & mounting kit
- Maintains PtP & PtMP links up to 10 miles
- VLAN support for increased security
- Windows –based GUI, Command Line Interface & Web Browser-based for programming and monitoring
- Factory programmed, configured, Identified and link tested.
- Type-N connectors

Projects with High Bandwidth requirements...

CDM Wireless, a leader in PtP & PtMP wireless broadband, introduces its new Raptor “e Series” product line. Higher bandwidth applications are becoming increasingly common as advancements in manufacturers hardware continue. The CDM Wireless Raptor MIMO product line helps to satisfy this need.

External antennas such as Sectors, Omnis, patch or parabolic combined with the Raptor e series makes it an extremely versatile device for almost any PtP, PtMP or Mesh application.

With actual data rates up to 200 Mbps the new Raptor series delivers even more capacity than our Viper series and allows users to stream even higher resolution images, video, live recordings, VoIP, etc.

The Raptor and Viper equipment can easily be combined into any hybrid deployment that requires less bandwidth at the edge and more at the head end.

On projects where 200 Mbps or more is not needed at remote locations, but is needed at the head end to receive multiple data streams, a combination of Raptor and Viper devices can be deployed at a considerable cost savings to the customer.

Raptor products act as either Power Sourcing Equipment (PSE) or Powered Devices (PD). PSE models will supply PoE+ power to one or two IP devices such as Cameras, Door Access Controllers, VOIP phones, etc. The PD models will accept power from a PoE switch or a 48Vdc injector.

Raptor products include all software, licenses, accessories and unlimited bandwidth.

Raptor e31r

Triple Ethernet, PoE Access Point

Powered via switch or factory supplied power injector
Includes 2-Type N connectors for MIMO antenna

Raptor e31s

Triple Ethernet, PoE+ Remote Transmitter

Powered via factory supplied PoE injector
Provides PoE+ power to IP devices on Ethernet 2 & 3

Raptor e32r

Triple Ethernet, Dual Radio PoE Access Point

Powered via switch or factory supplied power injector
Includes 4-Type N connectors for 2 MIMO antennas

Raptor e32rp

Triple Ethernet, Dual Radio, PoE+ Repeater

2-4 external antennas required

Raptor e Series Specifications

Wireless Interface

Frequency: 2.4/ 5.1 – 5.8GHz GHz
Data rates: 300 Mbps modulation
Receive Sensitivity: **2.4GHz:** MCS0 20MHz -94dBi -
MCS7 40MHz -75dBi
5GHz: MCS0 20MHz -97dBi -
MCS7 40MHz -74dBi
Modulation: OFDM
Transmit Power: 17 – 26dBm (radio dependent)
Range: up to 10 miles (environment dependent)

Power

Input: 48Vdc via injector and/or PoE (802.3af) switch (model dependent)
PSE: PoE+ (802.3at) on up to 2 Ethernet ports
Consumption: 11 watts maximum (4 watts typical)

Ethernet Interface(s)

1 - 3 Gigabit Fast Ethernet ports with Auto-MDI/X

Systems Management and Control

Local/Remote Admin: SSH, MAC, Telnet, WIN GUI via HTTP, FTP
Tools/Diagnostics: Bandwidth, Ping, Netwatch, Freq Scan, IP Scan, Traffic Monitor, Ping Speed, Email, Packet Sniffer Antenna Alignment, Graphing, Trace route, MAC Server, Flood Ping

Authentication, Security and Encryption

Authentication: RADIUS server MAC enabled
Security: SSL based authentication
Remote Admin: SSH, IP/MAC Telnet, Win GUI, HTTPS, FTP, Serial Console
Encryption: AES, 128.256, Triple DES with CBC-MAC, RADIUS, EAP
VPN: EOIP, VLAN, PPOE, PPTP, IPSEC, L2TP
Protocols: RTP/IP, UDP/IP, TCP/IP, HTTPS, VRRP, NTP, DNS, DHCP, ARP, WDS
GPS Support: Async NMEA0183, NMEA/RTCM or simple text

Environmental & Enclosure Specifications

Rating: IP67
Temperature: -67F to 159.8F (-55C to 71C)
Humidity: 100%
Dimensions: 12" x 12" x 2.75"
Weight: 7 lbs.
Antenna Connectors: 2 to 6 Type-N
External Connectors:
- Receivers: 1 weatherized RJ-45 for cable or Conduit
- Transmitters: 1 weatherized feed thru for cables or conduit
LEDs: Power, Activity, Ethernet Link
Mounting: mast, pole or wall
Grounding: DC Ground
Vibration: IEC 60721-3-4 4M5 Random
Mechanical: IEC 60721-3-4 4M5
Solar radiation: ASTM G53 1000 hours
Ice Load: 25mm radial
Salt fog: IEC 68-2-11 Ka 500 hours



The CDM Wireless SunTelligent™ custom product lines are self-contained Solar Packs for applications where commercial power is not available. They are available in 12, 24, 36 or 48 Volts DC. Integrated AC converters are available for applications that include equipment that is powered by 24 to 120 VAC.

