

Raptor i Series

300 Mbps MIMO



Key Features

- MIMO, Up to 200 Mbps actual throughput
- Built in internal MIMO Antenna
- PtP, PtMP or Mesh
- PoE 802.3af/at (PoE, PoE+)
- 1-3 Ethernet ports
- 1-3 radios
- SNMP technology ensures hassle free integration with existing networks
- PoE injector & mounting kit included
- 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.

For Projects with High Bandwidth requirements...

CDM Wireless, a leader in PtP & PtMP wireless broadband, introduces its new Raptor "i 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.

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 i31r

Triple Ethernet, PoE Access Point w/antenna

Powered via switch or factory supplied power injector

Raptor i31s

Triple Ethernet, PoE+ Transmitter w/antenna

Powered via factory supplied PoE injector

Provides PoE+ power to IP devices on Ethernet 2 & 3

Raptor i32rp

Triple Ethernet, Dual Radio, PoE+ Repeater w/antenna

Powered via factory supplied PoE injector

Provides PoE/PoE+ power to IP devices on Ethernet 2 & 3

Includes 2 Type-N connectors for additional external antenna



Raptor i Series Specifications

Wireless Interface

Frequency: 2.4/ 5.1 – 5.8 GHz
 Data rates: 300 Mbps Modulation (actual thru put depends on environment)
 Receive Sensitivity: 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, IPIP, 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% (wind driven rain)
 Dimensions: 12" x 12" x 2.75"
 Weight: 8 lbs.
 External Connectors:
 - Receivers: 1 weatherized RJ-45 for cable or Conduit
 - Transmitters: 1 weatherized feed thru for Cables or conduit
 LED's: 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.

