



Viper i Series

150 Mbps 802.11a/b/g/n

Key Features

CDM Wireless, a leader in PtP & PtMP wireless broadband, introduces its new Viper “i Series” product line. Simplicity, quality and ease of deployment are a few of the factors that differentiate CDM Wireless from the competition. The new Viper “i Series” is an ideal solution for short and long distance point-to-point & point-to-multipoint applications.

With actual data rates up to 100 Mbps the new Viper series delivers more capacity and allows users to stream higher resolution images, VoIP, video clips, live recording, etc. without interruption or data loss.

Antennas, integrated on a commercial outdoor enclosure, with a preinstalled mounting kit, makes installations fast and easy with only one Cat 5 cable needed for power and data.

With increased frequency selection and multiple non overlapping channels, the Viper series OFDM technology delivers higher data rates and is much more immune to potential interference than other wireless technologies on the market.

Viper 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.

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

- Includes Internal Antennas
- PtP, PtMP or Mesh
- PoE 802.3af/at (PoE, PoE+)
- 900MHz / 2.4GHz / 4.9GHz / 5.8GHz
- Up to 100 Mbps actual thru put
- 1-3 Ethernet ports
- 1-3 radios
- PoE injector & mounting kit included
- Maintains PtP & PtMP links up to 10 miles
- SNMP technology ensures hassle free integration with existing networks
- 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.

Viper i31r	PoE Access Point, 150 Mbps 3 Ethernet ports/Internal Ant Powered via switch or factory supplied power injector
Viper i31s	PoE+ Transmitter, 150 Mbps 3 Ethernet ports/Internal Ant Provides PoE+ power on 2 Ethernet ports
Viper i32r	PoE+ Repeater, 150 Mbps 3 Ethernet ports/Internal Ant Includes 2 internal radios & 1 type-N connector for external Ant
Viper i32rp	PoE+ Repeater, 150 Mbps 3 Ethernet ports/Internal Ant Includes 2 internal radios & 1 type-N connector for external Ant Provides PoE+ power on 2 Ethernet ports
V-Link	Programmed pair of 150 Mbps PoE/PoE+ Wireless Radios Kit consists of 1 Viper i31r & 1 Viper i31s



Viper i Series Specifications

Wireless Interface

Frequency: 2.3 – 2.5 GHz / 4.9 – 6.1 GHz
Data rates: 150 Mbps Modulation
(Actual thru put depends on environment)
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 (model dependent)
Consumption: 11 watts maximum (4 watts typical)

Ethernet Interface(s)

1 - 3 10/100 Mbps 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: Asynchronous 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: 7 lbs.
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.

