

# VIPER 5200 Product Series

Viper 5202-AP, Viper 5202-T, Viper 5203-AP, Viper 5203-RP



VIPER 5202-AP



VIPER 5202-T



VIPER 5203-RP

## Powering Made Simple

Unique to the CDM product line, Viper Transmitter & Repeater devices act as Power Sourcing Equipment (PSE) in that they will provide power for 2 IP devices that are 802.3af. Simply connect an IP camera or other device into Ether 2 or 3 and it is fully operational. The Transmitter and Repeater itself is powered using the standard 48vdc injector kit that comes with it.

Viper AP devices can be powered from an 802.3af PoE switch or the standard 48vdc injector kit. This versatility enables the products to be compliant with the most current advances being made in the IP industry and eliminates the integration of additional power supplies.

## Access and Management of the Network

The CDM Viper 5200 product series allows users access to the entire network infrastructure from any device they wirelessly connect to. All diagnostics, changes, reporting etc is done via the GUI interface. Remote management from a centralized location can be done from any device.

## Access to Network Edge Devices

All surveillance cameras or other equipment can be accessed from any Viper device as long as it is on the network. Any number of IP cameras or devices can be used with the only limiting factor being bandwidth<sup>3</sup>.

## Industrial Grade Equipment

The Viper 5200 series has a cast aluminum powder coated enclosure that is IP-67 rated to withstand all weather conditions. Manufactured for various indoor and outdoor applications, each connection is made on the outside of the device. On the Transmitter & Repeater, Ethernet 1 is power/data and Ethernet 2 & 3 are 802.3af PoE ports. On AP devices Ethernet 1 is power/data and Ethernet 2 is data only.

## Frequency and Encryption Versatility

The Viper 5200 series products are versatile and operate in the 2.4 GHz, 4.9 GHz and 5 GHz bands. In addition, they incorporate advanced encryption technologies and industry standard Quality of Service (QoS).

## Tx/Rx Power Feature Set

By utilizing standard software features and antenna configurations the devices have a wireless range of 100 ft to 10 miles<sup>1</sup> and are designed for quick, efficient deployments. Radio output power is adjustable and controlled through the use of software.

## Complete Package

The Viper 5200 series products include a 48 volt power supply, PoE injector, universal mounting system and all weatherproofing hardware needed for a complete installation. No more worries about ordering multiple items or mismatching them.

## Ease of Use

All products ship to the customer programmed, configured, identified and link tested. No further programming or configuration is required by the installation team<sup>2</sup>. This ensures instant connectivity and less time on the job.

1. Distances over 2 miles requires up to a 400 mw radio

2. Frequency selection and fine tuning of the network is occasionally required

3. Connecting more than 2 devices requires a hub or switch

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## Viper 5202-AP, Viper 5202-T, Viper 5203-AP, Viper 5203-RP

Wireless Interface			
VIPER 5202 Radio Transceiver(s)	1 Atheros multi-channel high performance transceiver		
VIPER 5202 Frequency	IEEE 802.11a 4.9 GHz – 6.1 GHz		
	IEEE 802.11b/g 2.3 GHz – 2.5 GHz		
VIPER 5202 Data Rates	SuperA/G supports data rate up to 108 Mbps in 802.11a turbo mode and 802.11g super mode; 54 Mbps in standard 802.11a and 802.11g mode		
VIPER 5203 Radio Transceiver(s)	2 Atheros multi-channel high performance transceivers		
VIPER 5203 Frequency	IEEE 802.11a 4.9 GHz – 6.1 GHz		
	IEEE 802.11b/g 2.3 GHz – 2.5 GHz		
VIPER 5203 Data Rates	SuperA/G supports data rate up to 108 Mbps in 802.11a turbo mode and 802.11g super mode; 54 Mbps in standard 802.11a and 802.11g mode		
Modulation	OFDM		
Transmit power	17dBm-26dBm (depending on radio)		
Receive Sensitivity	802.11b -95dBm @ 1Mbps -90dBm @ 11Mbps		
	802.11g -90dBm @ 6Mbps -74dBm @ 54Mbps		
	802.11a -88dBm @ 6 Mbps -71dBm @ 54Mbps		
Range	Up to 10 miles <sup>1</sup> depending on environment		
Power			
Repeater/Transmitter	Input Voltage 48 VDC via external power supply (supplied)		
	Output Voltage 802.3af compliant on Ethernet 2 and 3 (works as a PSE device)		
	External power supply 120/240 VAC 50/60 Hz		
	Power consumption 14 watts maximum		
AP	802.3af Compliant on Ethernet 1 (works as a PD device), also can be powered using standard 48 VDC PoE Injector kit		
	External power supply 120/240 VAC 50/60 Hz		
	Power consumption 14 watts maximum		
Ethernet Interface			
Repeater/Transmitter	Ethernet 1 10/100 Mbit/s Fast Ethernet port with Auto-MDI/X		
	Ethernet 2 & 3 802.3af (PSE) 10/100 Mbit/s Fast Ethernet port with Auto-MDI/X		
AP	Ethernet 1 802.3af (PD) 10/100 Mbit/s Fast Ethernet port with Auto-MDI/X		
	Ethernet 2 10/100 Mbit/s Fast Ethernet port with Auto-MDI/X		
Antenna Connections			
5202-AP/5202-T	1 Type-N female		
5203-AP	2 Type-N females		
5203-RP	1 integrated directional antenna, 1 Type-N Female		
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 NMEA 0183, NMEA/RTCM or simple text		
Environmental			
Rating	IP67		
Temperature	-40°F to 149°F (-40°C to 65°C)		
Humidity	100% (wind driven rain)		
Enclosure			
Size	10" x 10" x 3.5"		
Weight	3.75 lbs.		
Universal Mounting System	Included		
Weatherproofing Hardware	Included		
System power LED	Included		
Grounding			
DC ground			
Systems Management and Control			
Local/Remote Administration	SSH, MAC Telnet, WIN GUI via HTTP, FTP		
Monitoring and Accounting	IP traffic accounting, firewall actions logging, statistics graphs accessible via HTTP		
Management and System Health	Total uptime, uptime of wireless connections, free memory, total memory, CPU freq, CPU load, free HDD space, total HDD space, core temp, voltage, sector writes, monitoring of all local and remote interfaces, watchdog monitor, network monitor and status reporting by time or controlled events		
Netwatch and Scripting	Netwatch is a tool used to monitor the wireless and Ethernet interfaces. A series of executable code (scripts) can be configured to report network problems and trigger a response such as send an email, reboot, or create daily backups and FTP the file to a remote server		
OS Upgrade	FTP flash memory upgrade via a network connection		
BIOS Upgrade	XModem protocol using DHCP/BOOTP and TFTP protocols through the Ethernet network		
Tools/Diagnostics			
<ul style="list-style-type: none"> <li>• Bandwidth Test</li> <li>• Email</li> <li>• BTest Server</li> <li>• Flood Ping</li> </ul>	<ul style="list-style-type: none"> <li>• Ping</li> <li>• Ping Speed</li> <li>• Graphing</li> <li>• MAC Server</li> </ul>	<ul style="list-style-type: none"> <li>• Netwatch</li> <li>• Packet Sniffer</li> <li>• Telnet</li> <li>• Trace route</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic Monitor</li> <li>• IP Scan</li> <li>• Frequency Scan</li> <li>• Antenna Alignment</li> </ul>