





Each Viper features store and forward and route redundancy for extended range and easy network expansion. With advanced diagnostic capabilities, over the air firmware upgrades, channel migration and RoHS compliance, you can bet your investment today is protected well into the future.

Key Benefits

- 1-10 Watts (1-8 W MAS) Continuous Duty; software selectable
- 10-30 VDC Wide Range Power Supply
- Advanced security and encryption designed to meet FIPS 140-2 requirements
- On/Off-line Diagnostics for Network Health & Status
- Simultaneous Communications via RS-232 ports and IP/Ethernet
- Easily Configured as a Bridge or Router

 Single Device Store and Forward for easy network expansion

Dataradio Viper

 Embedded web server for Programming/Setup

 Route redundancy switches from primary to a secondary path when encountering system interference and link degradation

RoHS Compliant

High Speed

Long Range

Ruggedized

Safe/Secure

Diversity

Connectivity



Viper Specifications

General

Frequency Range

VHF: 136-174 MHzUHF: 406-512 MHzMAS: 928-960 MHz

Channel Bandwidth

6.25 kHz, 12.5 kHz; 25 kHz6.25 KHz not available for MAS

Operating Mode

Simplex or Half-Duplex

Size

- 5.50 x 2.125 x 4.25 inches
- 2.4 lbs.

Operating Temperature

-30° to + 60°C

Supply Voltage

■ 10-30 VDC

Cold Start

15 seconds (typical)

Emission Designators

- 3K55F1D (6.25 kHz)
- 8K30F1D (12.5 kHz)
- 16K8F1D (25 kHz)

Standards/Approvals

- FCC
- Industry Canada
- Designed to meet UL Class I Div II

Interface/Connectors

Power

Power I/O Right-angle, 4 contacts (male)

Ethernet

RJ-45 10/100 BaseT auto-MDIX

Serial (2)

■ DE-9F Setup Port/Terminal Server

Antenna

TNC Female

Network Management

Web interface/SNMP

LEDs

Power, Status, Link, Activity, Rx/Tx



Transmitter

Power Output

- 1-10 W Adjustable (UHF, VHF)
- 1-8 W Adjustable (MAS)

Frequency Tolerance

■ +1.0 PPM

FM Hum and Noise

Less than -45 dB @ 25 kHz

Duty Cycle

100%

Receiver

Sensitivity

- 25 kHz @10-6 Bit Error Rate:
 - -114 dBm @ 16 kbps; -106 dBm @ 32 kbps
- 12.5 kHz @10-6 Bit Error Rate:
 - -116 dBm @ 8 kbps; -109 dBm @ 16 kbps
- 6.25 kHz @10-6 Bit Error Rate:
 -115 dBm @ 4 kbps; -106 dBm @ 8 kbps

Selectivity

- > 75 dB @ 25 kHz Channel
- > 60 dB @ 12.5 kHz Channel
- > 45 dB @ 6.25 kHz Channel

Modem

Data Rates (User Selectable)

- 16 kbps, 32 kbps @ 25 kHz
- 8 kbps, 16 kbps @ 12.5 kHz
- 4 kbps, 16 kbps @ 6.25 kHz

Modulation

■ 2FSK, 4FSK

Diagnostics

Temperature, Voltage, Local/Remote RSSI, Forward/Reverse Power, Packet Error Rate

Encryption

AES 128, 192, 256; Designed to meet FIPS 140-2 Requirements

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