



Viper SC™

IP Router for Licensed Spectrum

136-174 MHz | 215-240 MHz | 406-512 MHz | 928-960 MHz

You no longer have to choose between wireless IP and secure, long range communications; Viper SC delivers both! Using a Software Defined Radio, Viper SC is programmable for 50, 25, 12.5, or 6.25 kHz channels. This robust communications link for VHF, UHF & MAS licensed networks features an internal web browser with a familiar interface for IT and network administrators to set up and view device information, configure network parameters and deploy unit upgrades from any location.

Each Viper SC 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.

MultiSpeed operation allows each remote Viper SC to communicate to a Viper SC Base Station at the fastest speed supported by a given signal strength. MultiSpeed operation results in an adaptive network which is optimized for performance and reliability.

Air Superiority Advantage!

- 128 kbps @ 50 kHz
- MultiSpeed operation utilizes variable modulation to result in better overall system performance
- Easily configured in bridge or router mode
- Single device store and forward for easy network expansion
- Advanced security and encryption designed to meet FIPS 140-2 requirements
- Route redundancy allows switching from the primary to a secondary path when encountering system interference and link degradation
- 1-10 Watts continuous duty; software selectable
- 10-30 VDC wide range power supply

High Speed

Long Range

Ruggedized

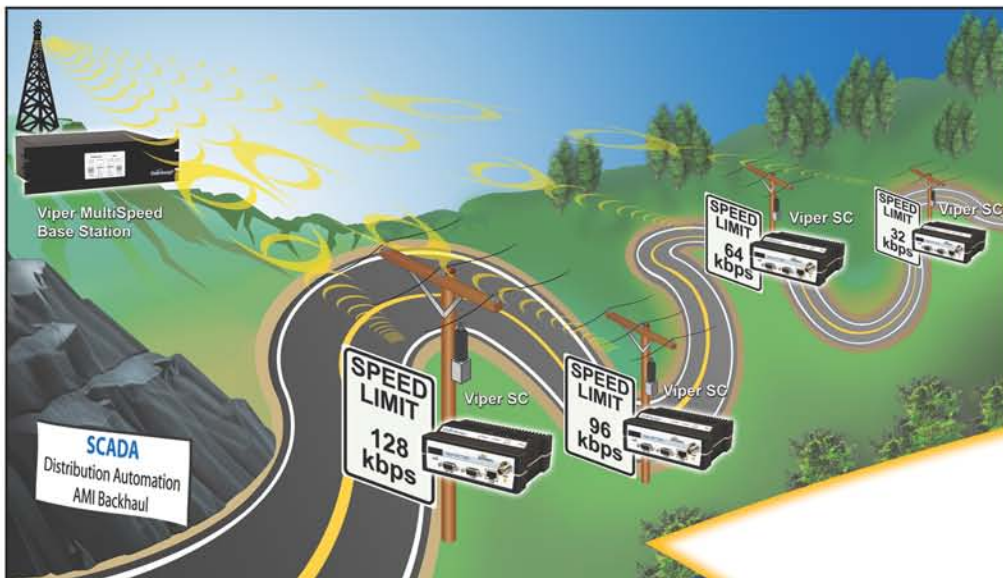
Safe/Secure

Diversity

Connectivity

Viper SC Specifications

| GENERAL | | VHF 200 UHF | MAS 900 |
|---|-----------|---|--|
| Frequency Range | | Variable | |
| Channel Bandwidth | | 6.25 kHz, 12.5 kHz, 25 kHz, 50 kHz | 12.5 kHz, 25 kHz, 50 kHz |
| Modes of Operation | | Simplex, Half-Duplex | |
| Modulation | | 2FSK, 4FSK, 8FSK, 16FSK | |
| RECEIVER | | | |
| Bit Error Rate (BER) @ 1x10 ⁻⁶ (in dBm) | 6.25 kHz: | -115@4 kbps; -106@8 kbps; -100@12 kbps | |
| | 12.5 kHz: | -116@8 kbps; -109@16 kbps; -102@24 kbps; -95@32 kbps | |
| | 25 kHz: | -114@16 kbps; -106@32 kbps; -100@48 kbps; -92@64 kbps | |
| | 50 kHz: | -111@32 kbps; -104@64 kbps; -97@96 kbps; -88@128 kbps | |
| Adjacent Channel Rejection | | 45 dB@6.25 kHz; 60 dB@12.5 kHz; 70 dB@25 kHz; 75 dB@50 kHz | 60 dB@12.5 kHz; 70 dB@25 kHz; 75 dB@50 kHz |
| TRANSMITTER | | | |
| Frequency Stability | | 1.0 ppm | |
| Carrier Output Power | | 1-10 Watts | 1-8 Watts |
| Duty Cycle | | 100% (Power Foldback for High Temps) | |
| Output Impedance | | 50 Ω | |
| ELECTRICAL | | | |
| Tx Current | | 1.2-3.6A@10V; 0.6-1.8A@20V; 0.4-1.2A@30V | |
| Rx Current | | 450mA@10V; 240mA@20V; 170mA@30V | |
| Primary Power | | 10-30 VDC | |
| MECHANICAL | | | |
| Nominal Dimensions | | 5.50" W x 2.125" H x 4.25" D (13.97 x 5.40 x 10.8 cm) | |
| Shipping Weight | | 2.4 lbs (1.1 kg) | |
| ENVIRONMENTAL | | | |
| Operating Temperature | | -30° to +60° C | |
| Operating Humidity | | 5% to 95% Non-condensing | |
| INTERFACES | | | |
| Serial COM 1, COM 2 | | RS-232, DB-9 | |
| Ethernet | | 10 BaseT Auto-MDIX RJ-45 | |
| Antenna | | TNC Female (Tx/Rx), SMA Female (Rx)-Dual port models only | |
| APPROVALS & CERTIFICATIONS | | | |
| FCC | | NP4-5018-500 | NP4-5098-500 |
| IC (DOC) | | 773B-5018500 | 773B-5098500 |
| UL | | Class I, Div 2 when powered with a listed Class 2 source | |



MultiSpeed Illustration

CalAmp
299 Johnson Ave, Ste 110
Waseca, MN 56093

Tel 800.992.7774 | Tel 507.833.8819
Fax 507.833.6748

www.calamp.com

© 2010 CalAmp. All rights reserved. All data subject to change without notice.
PN: 000-0000-059 Rev 1

The Viper SC is a commercial off-the-shelf Information Technology component manufactured in the United States.

