



## 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

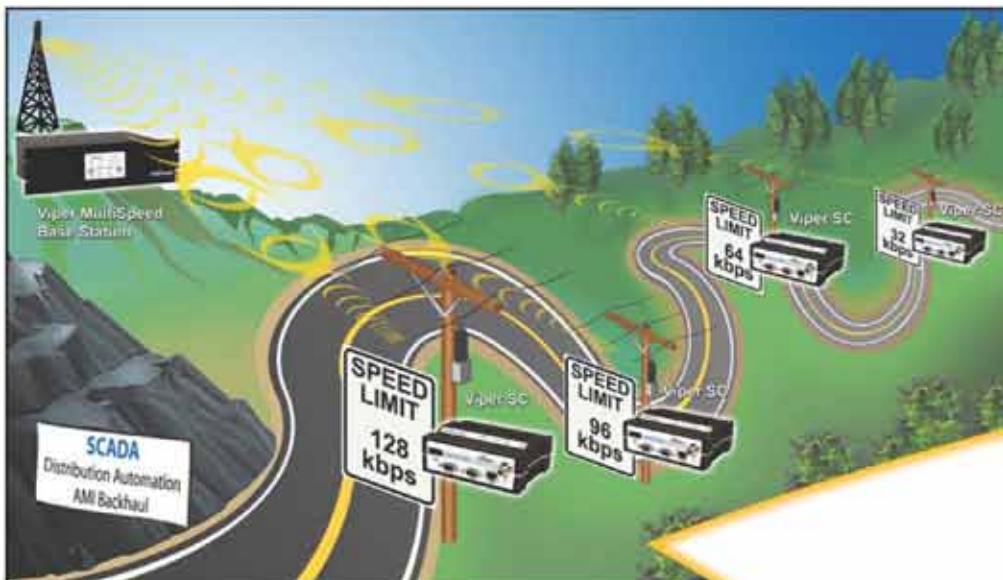
Safe/Secure

Diversity

Connectivity

## Viper SC Specifications

GENERAL		VHF   200   UHF	900 MAS		
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 <sup>-6</sup> (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		-112@8 kbps; -106@16 kbps; -99@24 kbps; -90@32 kbps	
	25 kHz:	-114@16 kbps; -106@32 kbps; -100@48 kbps; -92@64 kbps		-111@16 kbps; -104@32 kbps; -97@48 kbps; -89@64 kbps	
	50 kHz:	-111@32 kbps; -104@64 kbps; -97@96 kbps; -88@128 kbps		-108@32 kbps; -101@64 kbps; -94@96 kbps; -85@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		VHF	200	UHF	900 MAS
FCC		NP4-5018-500	NP4-5028-502	NP4-5048-300	NP4-5098-502
IC (DOC)		773B-5018502	773B-5028502	773B-5048302	773B-5098502
UL	Class 1 Div 2 when powered with a listed Class 2 source				



MultiSpeed Illustration

Distributed in Canada by

Omega Communications Ltd.

888-860-8016

wireless@omegacom.ca

<http://omegacom.ca>