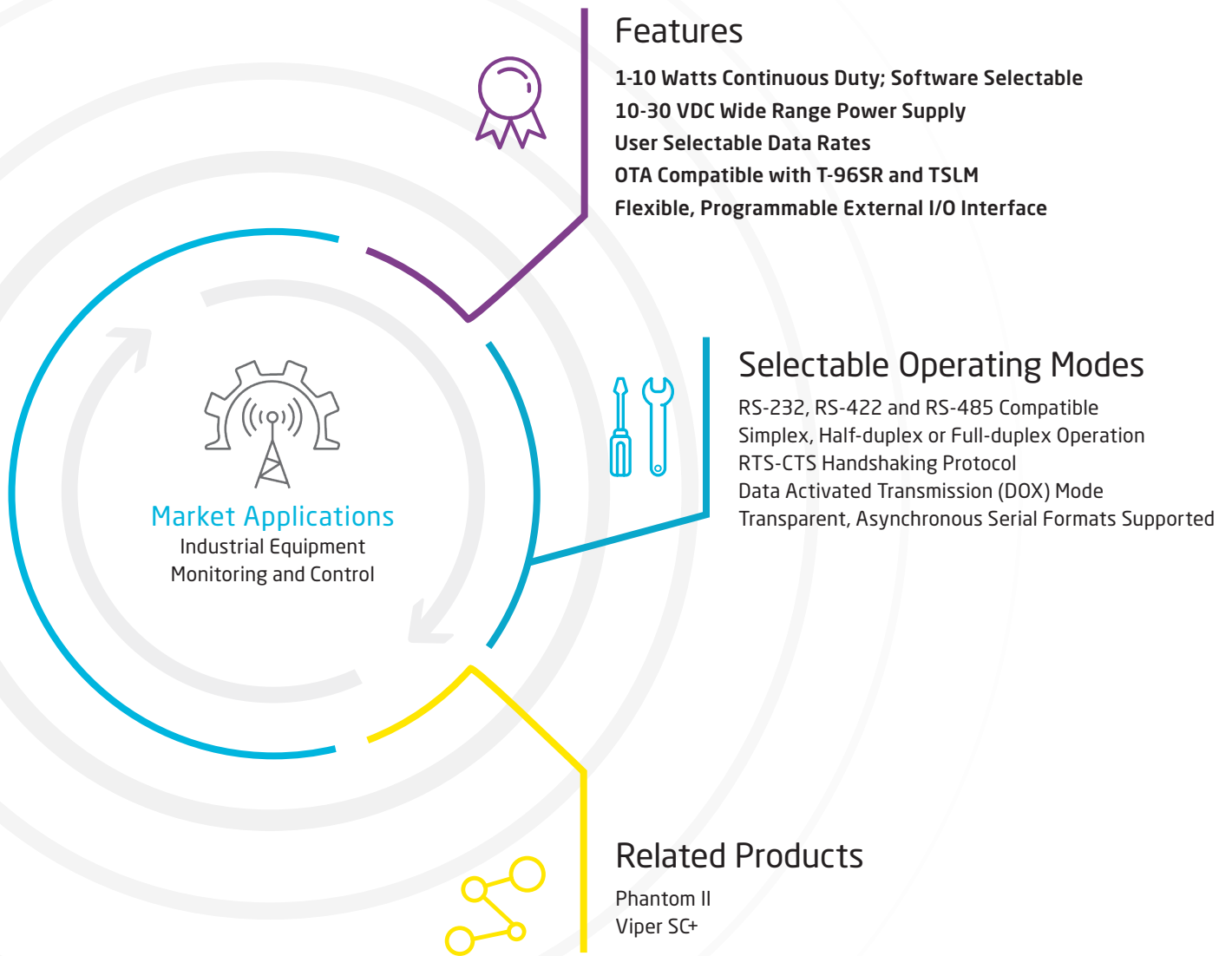




High Speed Serial Connectivity for Remote Monitoring and Control

The Guardian™ wireless modem provides a high-speed data link suitable for a wide variety of applications requiring system security and diagnostic reporting. Designed for speed and efficiency, the Guardian is applicable for analog operation such as paging, phone line substitution and slow speed data use cases.



Guardian™ Technical Specifications

General

Frequency Range	136-174 MHz, 406-512 MHz
Channel Bandwidth	12.5 kHz, 25 kHz
Modes of Operation	Modem and Analog: Simplex, half-duplex, full-duplex
Modulation	2FSK

Receiver Standards

Bit Error Rate	@1x10 ⁻⁶
12.5 kHz	-107 dBm @ 9.6 kbps -110 dBm @ 4.8 kbps
25 kHz	-100 dBm @ 19.2 kbps -107 dBm @ 9.6 kbps -110 dBm @ 4.8 kbps
Adjacent Channel	60 dB @ 12.5 kHz; 70 dB @ 25 kHz

Transmitter

Frequency Stability	1.0 ppm
Carrier Output Power	1-10 watts
Duty Cycle	100% (Power foldback for high temps)
Output Impedance	50 Ω

Certifications

Industry Certifications	FCC, IC, UL Class I, Div. II
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Electrical

Tx Current	1.2-3.6A @ 10V; 0.6-1.8A @ 20V; 0.4-1.2A @ 30V
Rx Current	360mA @ 10V; 200mA @ 20V; 150mA @ 30V (Typ)
Primary Power	10-30 VDC

Environmental

Temperature	-30° to +60° C -40° to +70° C (w/ 50% duty cycle at 10W RF power)
Humidity	5% to 95% non-condensing

Physical/Design

Dimensions	5.50" x 2.125" x 4.25" (13.97 x 5.40 x 10.8 cm)
Weight	2.4 lbs. (1.1 kg)

Interface Standards

Serial COM 1, COM 2	RS-232 DB-9
Analog User	I/O Right Angle, RS-422, RS-485, 8 Contacts (Male)
Antenna	TNC female (Tx/Rx), SMA female (Rx)-Full duplex models only

CALIFORNIA PROPOSITION 65



WARNING:

This product can expose you to chemicals including Carbon black and Nickel, which are known to the State of California to cause cancer, and including Bisphenol A and 1,3-Butadiene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov