ENCOM PULSE S

RS-232 Radio Modem

OVERVIEW

The **Pulse S** is a powerful radio modem that provides RS-232 connectivity to a wide variety of devices. The Pulse system is easy to install, maintenance free and will provide years of reliable connectivity throughout your city or town.
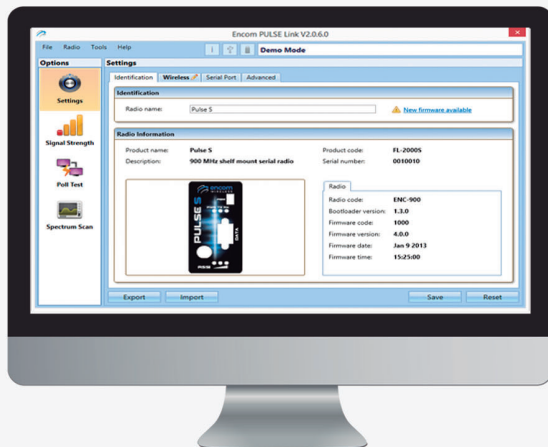
EASE OF USE AND RELIABILITY

At the heart of the **Pulse S** is a powerful 1 Watt 900 MHz FHSS radio that delivers NLOS (non-line of sight) reliable data communications with ranges of up to 20 miles (LOS). Built-in repeater functionality can extend that ranges even further!

The **Pulse S** is easy to install. Key features include: Built-in USB 2.0 interface, small form factor, low power consumption and its designed for the elements.

A notable feature is its extremely low power consumption. You can minimize solar powered site costs with this powerful wireless communication option.

The **Pulse S** is compatible with all other Pulse series radios allowing wireless networks that may include a mix of RS-232 and FSK communications. Combine different products to obtain the most value from the wireless network.
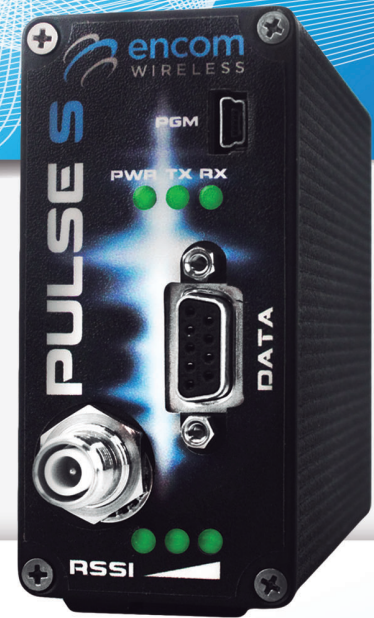

PULSE LINK software

ENCOM PULSE LINK SOFTWARE

All configuration is done through the built-in USB 2.0 interface. The modem slot form factor reduces installation requirements and ensures a smooth installation.

Provided free of charge with every Pulse radio is the intuitive Pulse Link software to configure and diagnose your network links quickly and easily. With built-in tools such as Spectrum Analyzer, Signal Level Monitor and Poll Testing maintaining your links is an intuitive task.

Enhanced features include AES 128-Bit encryption as well as low power consumption and a high performance receiver.
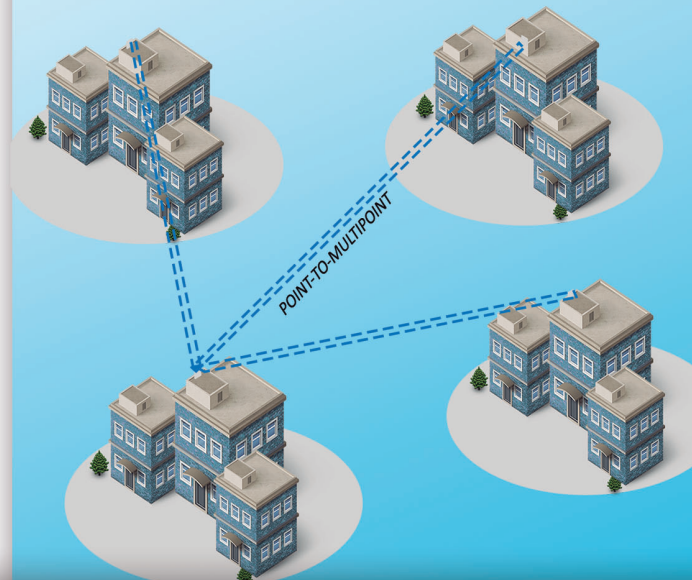
KEY FEATURES

+ Plug-and-Play with all traffic controllers
+ Simplified programming through USB port and Pulse Link
+ Extremely low power comsumption
+ 1 Watt Transmitter
+ AES 128-Bit encryption for enchanced security
+ Up to 20 mile range (LOS)
+ 902-928 MHz operating frequency
+ -40°C to 176° (-40°C to 80°C) operating temperature
+ Built-in Store & Forward Repeater extends range

KEY BENEFITS

+ Over 28 years of broad industrial wireless experience
+ Unparalleled software management tools
+ Scaleable and future proof technology platforms
+ Unequalled warranty and support programs
+ Easily defined and measurable ROI

POINT-TO-MULTIPOINT

www.encomwireless.com

PHYSICAL SPECIFICATIONS:	PULSE S | SPECIFICATIONS
Enclosure:	Aluminum, Black Powder Coat
Dimensions:	1.5"W x 3.5"H x 4.5"D
Data Interface:	RS232 Asynchronous, DB9F
Data Format:	Even / Odd / No Parity, 7 or 8 Data Bits
Data Rates:	1200 to 115200 Baud
Data Framing:	User Selectable with Programmable ON/OFF delays
Input Power:	6 to 30 VDC
Typical Consumption:	Master: 54 mA @ 24VDC / Repeater: 55 mA @ 24VDC / Remote: 12.5 mA @ 24VDC
Electrically Isolated Data:	Yes
Electrically Isolated RF:	Yes
Second Serial Port: (Pass-through to controller)	Yes, DB9F

RADIO SPECIFICATIONS:	
Technology:	Frequency Hopping Spread Spectrum (FHSS)
Operating Mode:	Master, Repeater and Remote
System Configurations:	Point-to-Point, Point-to-Multipoint, Peer-to-Peer
Frequency Range:	902-928 MHz, ISM Band
Available Hop Patterns:	64
Number of RF Channels:	128
RF Channel Spacing:	200 kHz
Output Power:	1mW, 10 mW, 100mW, 1000mW
Receiver Sensitivity:	-110dBm @ 10-6 BER
Error checking:	32-Bit CRC, ARQ
Encryption:	AES 128-Bit
Certification:	FCC, Industry Canada

OPERATING SPECIFICATIONS:		INTERFACE SPECIFICATIONS:	
Operating Temperature:	-40°F to 176°F (-40°C to 80°C)	Antenna Port:	RP-TNC-F
Environment Humidity:	0% to 95% non-condensing	Programming Port:	USB, Mini B

VISUAL INDICATORS:		PROGRAMMING APPLICATION: PULSE LINK (free of charge)	
Power:	Yes	Radio Configuration:	Yes
TX Data, RX Data	Yes	Spectrum Analyzer:	Yes
RSSI:	Yes	Signal Strength:	Yes
		Poll Test:	Yes
		Firmware Upgrade:	Yes
		Security:	Yes, AES 128-Bit

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