

## THE PULSE S WIRELESS MODEM DELIVERS

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

At the heart of the Pulse S is a powerful 1 Watt 900 MHz Frequency Hopping radio that delivers reliable NLOS (non line of sight) data communications at ranges up to 20 miles. Built-in repeater functionality could extend the range beyond 60 miles.

The Pulse S is simple to install. Key features include: built in USB 2.0 interface, small form factor, low power consumption and designed for the elements.

One notable feature about the Pulse S is the 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 network configurations that may include a mixture of RS-232 and FSK communications. Combine different products to obtain the most value from the wireless network.

Point-to-Multipoint applications include:

- Traffic Controller Interconnect
- Vehicle Detector Communications
- Water/Wastewater management systems
- Industrial SCADA Networks

# PULSE S

## FEATURES

- Plug and play with all traffic controllers
- Simplified Programming through USB port
- Extremely low power consumption
- Up to 20 Mile Range (with L.O.S.)
- Built-in Store & Forward Repeater Extends Range
- 902 – 928 MHz operating frequency
- Full 1 Watt Transmitter
- Up to 115kbps Sustained Data Throughput
- -40 to 176F (-40 to 80C) Temperature range
- High Performance Receiver: -110 dBm sensitivity
- PULSE LINK configuration software includes:
  - Spectrum Analyzer, Signal Level Monitor, Poll Testing
  - Compatible with all Pulse products

SERIAL



## RADIO SPECIFICATIONS

Technology	Frequency-hopping spread spectrum (FHSS)
Remote System Configurations	Operating Mode Transceiver, Master / Repeater Point-to-Point, Point-to-Multipoint, Peer-to-Peer
Frequency	Range 902-928 MHz, ISM Band
Available Hop	64
Patterns	
Number of RF Channels	128
RF Channel Spacing	200kHz
Output Power	1mW, 10mW, 100mW, 1000mW
Receiver Sensitivity	-110dBm @ 10-6 BER
Error Checking	32-bit CRC, ARQ
Encryption	32-bit
Certification	FCC, Industry Canada

## OPERATING SPECIFICATIONS

Operating Environment	-40 to 176F (-40 to 80C)
Humidity	0 to 95% non-condensing

## INTERFACE SPECIFICATIONS

Antenna Port	RPTNC-F
Programming Port	USB, Mini B

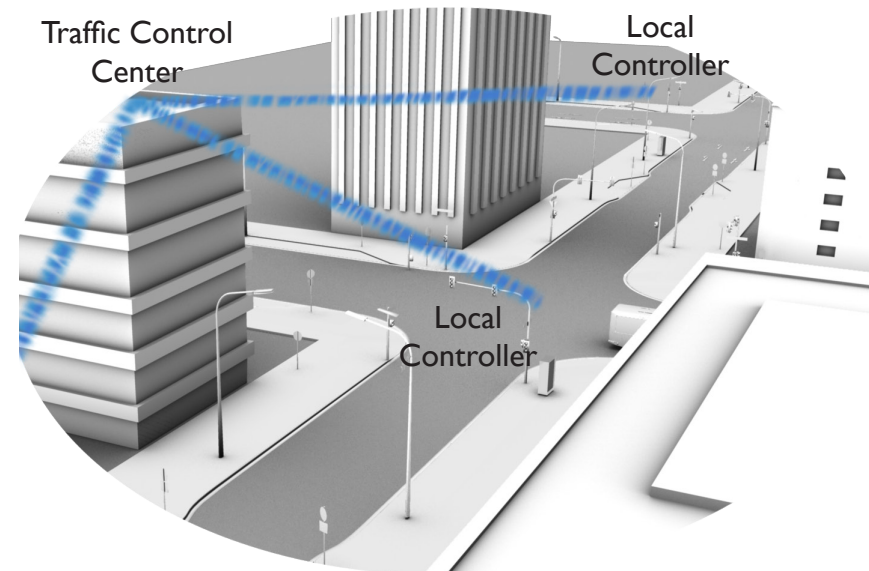
## INDICATORS

Power	Yes
TX Data, RX Data	Yes
RSSI	Yes

## PROGRAMMING APPLICATION

Radio Configuration	Yes
Spectrum Analyzer	Yes
Signal Strength	Yes
Poll Test	Yes
Firmware Upgrade	Yes

\*\*ENCOM reserves the right to make changes to specifications of products described in this data sheet at any time without notice.



## PULSE S

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 Rate	1200 to 115200 Baud
Data Framing	User Selectable, with Programmable ON/OFF Delays
Input Power	6 to 30VDC
Typical Consumption:	
Master	54mA @ 24VDC
Repeater	55mA @ 24VDC
Remote	12.5mA @ 24VDC



...where wireless is simple!

640 42nd Ave NE Unit #7  
Calgary, AB T2E 7J9  
(403) 230-1122  
Toll Free: (800) 617-3487  
Fax: (403) 276-9575