

THE PULSE SR WIRELESS MODEM DELIVERS

Designed specifically for traffic management applications, the Pulse SR is a NEMA / 170 / 2070 compatible radio modem that provides Serial RS-232 for traffic controller interconnect systems.

Simply plug the Pulse SR into the detector rack or input file inside the traffic controller cabinet and wireless interconnect is enabled.

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

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

The Pulse SR 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 SR

FEATURES

- NEMA / 170 / 2070 Detector Rack compatible
- 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



SERIAL RACK

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

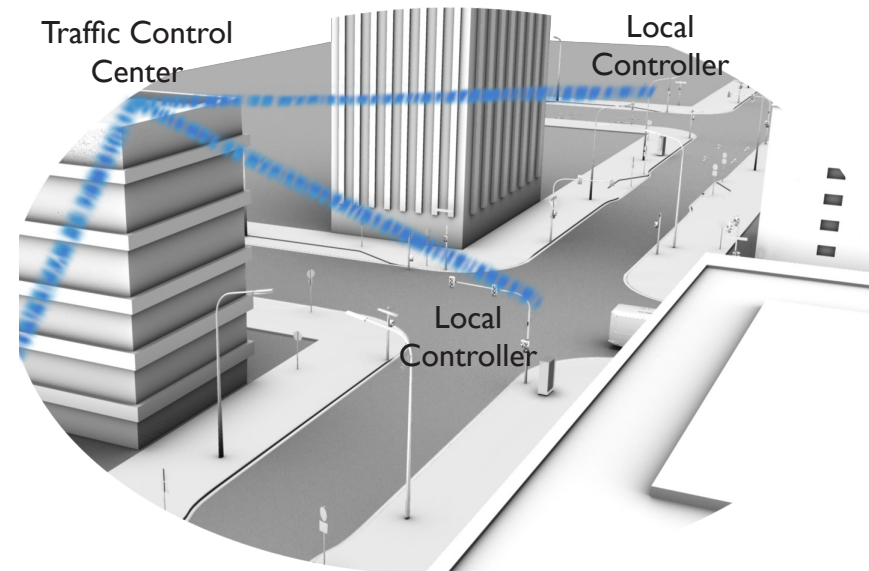
INDICATORS

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 SR

Enclosure	Detector Rack, 2x22 Pin Edge Card, 0.156" CTR
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	Powered through Edge Connector
Typical Consumption:	:Master 54mA @ 24VDC Repeater 55mA @ 24VDC Remote 12.5mA @ 24VDC