

THE PULSE C FSK WIRELESS MODEM DELIVERS

Add additional intersections to existing FSK copper wire controller interconnect systems with the PULSE C FSK Wireless Modem. Designed specifically for traffic management applications, the Pulse C is the perfect choice for all off copper FSK wireless applications. The integrated 1200 baud FSK modem is plug and play compatible with all 2 or 4 wire systems. The PULSE system is easy to install, maintenance free and will provide years of reliable connectivity throughout your city or town.

All configuration is done through the built in USB 2.0 interface using Pulse Link Software.

At the heart of the Pulse C 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 C 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

PULSE C

FEATURES

- Integrated 2/4 Wire FSK (Bell 202) 1200 baud modem
- Instant Wireless gateway for adding wireless intersections
- 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

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RADIO SPECIFICATIONS

Technology	Frequency-hopping spread spectrum (FHSS)
Remote	Operating Mode Transceiver, Master / Repeater
System Configurations	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	-40 to 176F (-40 to 80C)
Environment Humidity	0 to 95% non-condensing

INTERFACE SPECIFICATIONS

Antenna Port	RPTNC-F
Programming Port	USB, Mini B

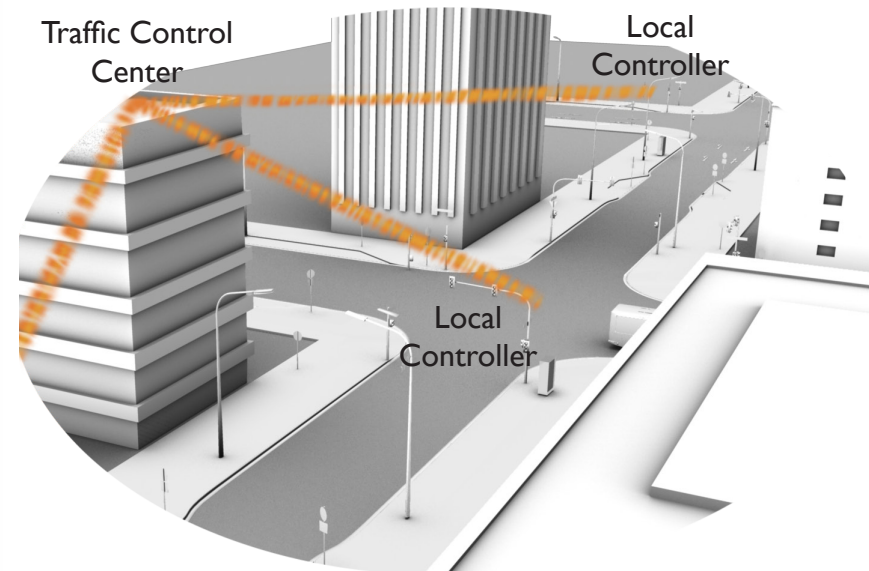
INDICATORS

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 CFSK

Enclosure	Aluminum, Black Powder Coat	
Dimensions	1.5"W x 3.5"H x 4.5"D	
Data Interface	Terminal Block, 2 or 4 Wire FSK	
Data Format	Bell 202, Mark 1200 Hz, Space 2200 Hz	
Data Rate	1200 Baud	
Data Framing	User Selectable, with Programmable ON/OFF Delays	
Input Power	6 to 30VDC	
Typical Consumption:	Master	190mA @ 12VDC
	Repeater	190mA @ 12VDC
	Remote	48mA @ 12VDC



...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