THE PULSE CR WIRELESS MODEM DELIVERS

Designed specifically for 2070 and NEMA ATC traffic controller wireless interconnect applications, the Pulse 2070 plugs directly into the modem slot of the 2070/ ATC traffic controller. Reduce messy cabling and improve reliability by directly connecting the radio to the traffic controller. The PULSE 2070 is compatible with all 2070/ ATC traffic controllers and their associated software.

Simply plug the Pulse 2070 into the 7A-RS232 communication module in a 2070Controllerand wireless interconnect for that controller will be enabled.

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.

At the heart of the Pulse 2070 is a powerful 1 Watt 900 MHz Frequency Hopping radio that delivers NLOS (non line of sight) reliable data communications at ranges beyond 20 miles. Built-in repeater functionality could extend the range beyond 60 miles.

The Pulse 2070 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

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www.encomwireless.com

PULSE 2070

ATC 2070

FEATURES

- 2070 Internal Modem Slot compatible
- Eliminate the need for an external power supply and RS-232 data cable
- Plug and play with all 2070 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

Radio Specifications

Technology	Frequency-hopping spread spectrum (FHSS)
	Operating Mode Transceiver, Master / Repeater
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	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	RP TNC-F
Programming Port	USB, Mini B

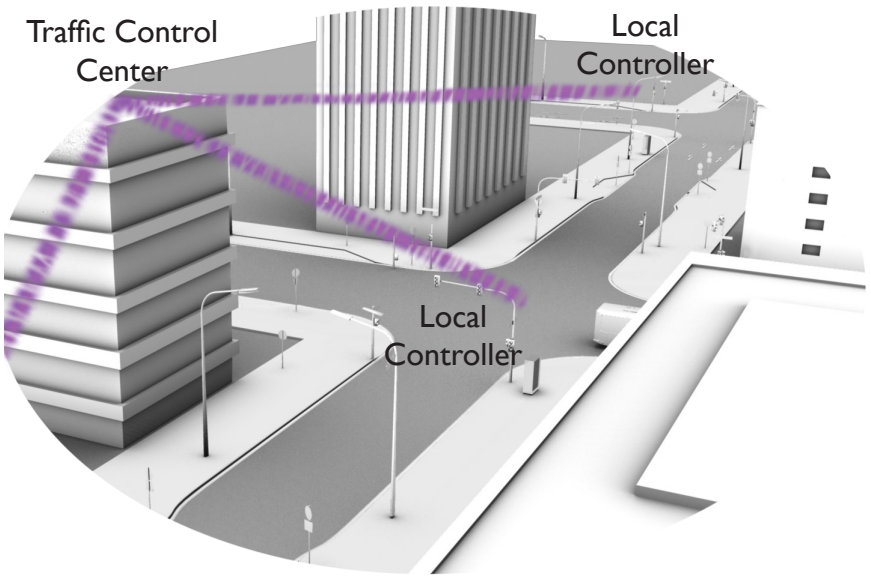
Indicators

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 2070

Enclosure	2070 Chassis, 96 Pin DIN Male Connector Edge Card
Dimensions	1.6"W x 6.9"H x 8.3"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 (5VDC Pin)
Typical Consumption:	Master 790mA @ 5VDC
	Repeater 790mA @ 5VDC
	Remote 700mA @ 5VDC
Electrically Isolated Data	Yes
Electrically Isolated RF	Yes
Second Serial Port (Passthrough to Controller)	Yes, DB9F

encom WIRELESS DATA SOLUTIONS

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