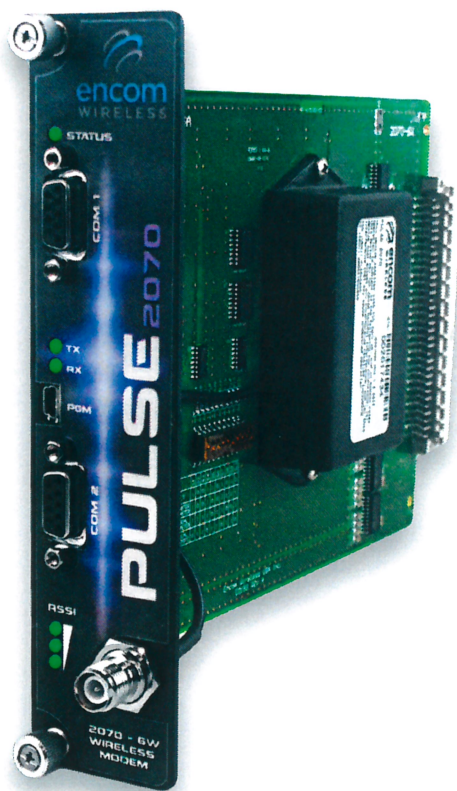
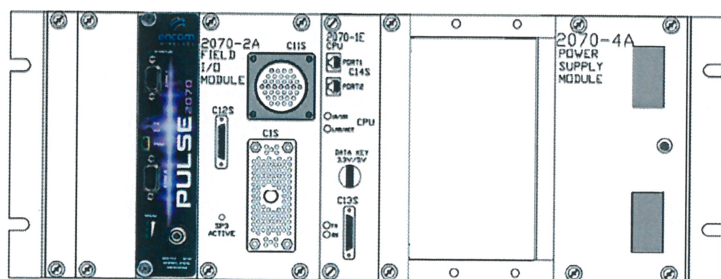


Pulse 2070

WIRELESS SERIAL RADIO MODEM CARD



Typical Application – Pulse 2070 installed in ATC2070 unit



Rear View of ATC2070 Controller Unit showing Pulse 2070 installed

**Configuring, Controlling
and Monitoring your Encom
equipment is EASY with
ControlPAK and Pulse Link!**



www.encomwireless.com

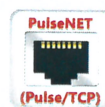
Designed specially for ATC2070 and NEMA ATC traffic controller wireless interconnect applications, the **Pulse 2070** plugs directly into the modem slot of the ATC2070 traffic controller.

Simply plug the Pulse 2070 into the 7A-RS232 communication module in an ATC2070 controller to enable wireless functionality.

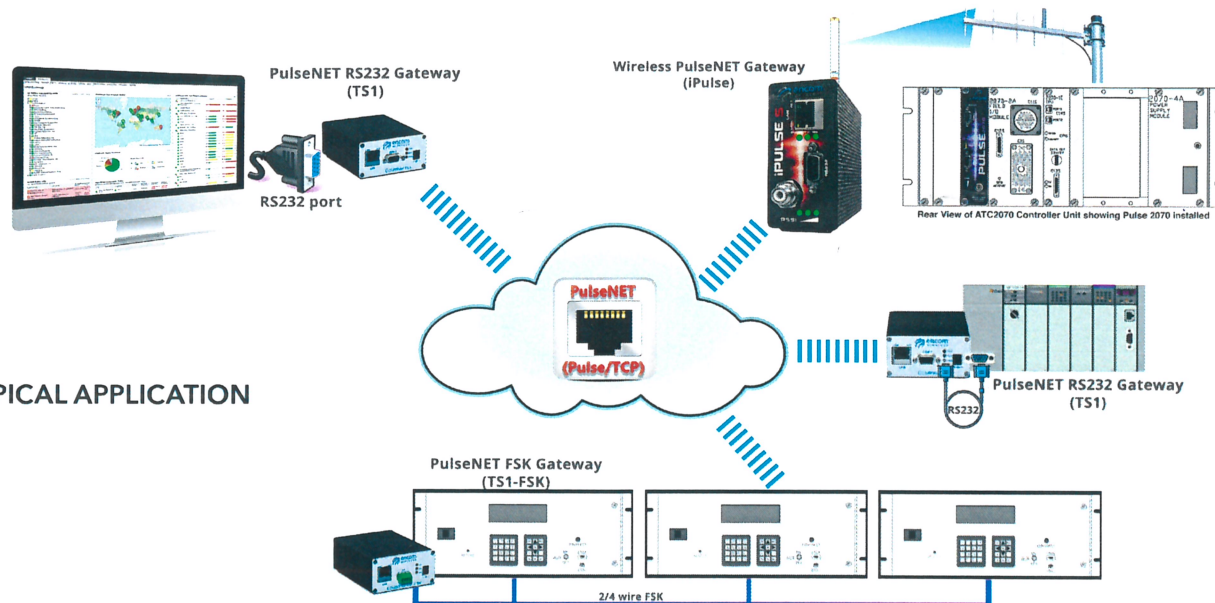
The Pulse 2070 is compatible with all other Encom Pulse series radios and support wireless networks that may include a mix of RS-232 and FSK communications.

KEY FEATURES

- Plug and Play with all ATC2070 traffic controllers
- Eliminates the need for external power supply and RS-232 cable
- Range of up to 20 miles line-of-sight
- High-speed throughput up to 115.2 Kbps
- License-free 900 MHz operation
- Full 1-Watt transmitter
- Built-in 'store & forward' repeater extends range
- Highly secure AES 128-bit encryption
- Simple configuration and diagnostics via USB port and PulseLINK software



TYPICAL APPLICATION



GENERAL SPECIFICATIONS

Input Power	Power through Edge Connector
Power Consumption	790 mA @ 5 VDC (configured as Master), 700 mA @ 5 VDC (configured as remote)
LED indicators	PWR, RSSI, TXD, RXD
Operating Temperature	-40°F to 176°F (-40°C to 80°C), up to 95% humidity RHNC
Enclosure	2070 Chassis, 96-pin DIN Male connector Edge Card
Dimensions	1.60" W x 6.90" H x 8.30" D
Weight	10 oz.

RADIO SPECIFICATIONS

Technology	Frequency-hopping spread spectrum (FHSS) with repeater capability
Frequency Range	902-928 MHz, License-free ISM Band
Operating Mode	Master, Repeater and Remote
Configuration	Point-to-Point, Point-to-Multipoint, and Peer-to-Peer
Available Hop Pattern	64
Number of RF Channels	128
Output Power	1 mW, 10 mW, 100 mW, 1 W
Receiver Sensitivity	-110 dBm @ 10-6BER
Error Checking	32-bit CRC
Encryption	32-bit proprietary or 128-bit AES
Antenna Port	RP TNC-F
Certification	FCC, Industry Canada

CONNECTIVITY

Data Interface	<ul style="list-style-type: none"> • USB 2.0, Mini-B receptacle for programming • RS232 Asynchronous, DB9F (2nd serial port pass-through to controller)
Data Rate	1200 to 115200 Baud
Data Format	Even / Odd / No Parity, 7 or 8 data bits
Handshaking	None / Hardware / Data Framing
Electrically Isolated Data	Yes
Electrically Isolate RF	Yes
Configuration, Monitoring & Control	ControlPAK and PulseLINK

ORDERING OPTIONS

- **PULSE 2070:** Serial radio modem card for ATC2070 controller, 902-928MHz

**ENCOM radios require professional installation.*

Specifications subject to change without notice. Visit www.encomwireless.com for updates.

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