

# SERIAL

# WIRELESS INTERCONNECT 5200



## MODEL 5200 SHELF MOUNT



## MODEL 5200R RACK MOUNT



### MODEL 5200 WIRELESS MODEM DELIVERS

The Model 5200 is a cost-effective radio modem that provides RS-232 connectivity to a wide variety of traffic control devices.

The Model 5200 is available in a stand-alone shelf mount unit and 170/TS1/TS2 detector rack version.

The 5200 is compatible with all other 5000 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 interconnect system.

Applications include: Point-to-Multipoint RS-232 interconnect systems, Fiber-optic "last mile" links, bridge broken fiber lines, communications with VMS (variable message signs), and RS-232 detector communications.

With ENCOM™, Wireless is Simple!

### FEATURES

- Built-in Store & Forward Repeater Capability
- License-Free, Frequency-Hopping Spread Spectrum Technology
- Up to 115kbps Sustained Data Throughput
- End-to-end Delays of less than 8 milliseconds
- Available as a Standalone Shelf Unit or 170/TS1/TS2 Detector Rack Card
- Up to 20 Mile Range (with L.O.S.)
- Store and Forward Repeater Standard
- Full Duplex Capability
- Transparent Operation with Asynchronous Traffic Applications
- High Performance Receiver
- Built-in Setup and Diagnostics Capabilities
- Variable Output Power Capability – Maximum 1 Watt
- Completely Configurable with Windows™ Based ControlPAK™ Software (included)
- Compatible with all 5000 Series products



**ENCOM™**  
Wireless Data Solutions

# SERIAL WIRELESS INTERCONNECT 5200

# SPECIFICATIONS

## RADIO SPECIFICATIONS

TECHNOLOGY:

FREQUENCY RANGE:

OUTPUT POWER:

SOFTWARE PROGRAMMABLE:

AVAILABLE HOP PATTERNS:

NUMBER OF RF CHANNELS:

RF CHANNEL SPACING:

ERROR CHECKING:

ERROR CORRECTION:

ENCRYPTION:

RECEIVER SENSITIVITY / BER:

SYSTEM GAIN:

ANTENNA PORT:

CERTIFICATION:

OPERATING MODES:

SYSTEM CONFIGURATIONS:

## 900MHZ

FREQUENCY HOPPING SPREAD SPECTRUM  
TECHNOLOGY (FHSS)

902-928 MHz

1mW, 10mW, 100mW, 1000mW

YES

62

139

200KHz

16 BIT-CRC

FORWARD ERROR CORRECTION

32 BIT

-110 DBM @10-6 BER

152 DBM

RP TNC-F

FCC, INDUSTRY CANADA

TRANSCEIVER

POINT TO POINT, POINT TO MULTIPOINT,  
MULTIPOINT TO POINT, MULTIPOINT TO MULTIPOINT.

## 2.4GHZ

FREQUENCY HOPPING SPREAD SPECTRUM  
TECHNOLOGY (FHSS)

2.400-2.4835 GHz

10, 50, 100, 250, 500, 750, 1000mW

YES

44

202

400KHz

16 BIT-CRC

FORWARD ERROR CORRECTION

32 BIT

-110 DBM @10-6 BER

152 DBM

RP TNC-F

FCC, INDUSTRY CANADA

TRANSCEIVER

POINT TO POINT, POINT TO MULTIPOINT,  
MULTIPOINT TO POINT, MULTIPOINT TO MULTIPOINT.

## GENERAL SPECIFICATIONS

INPUT POWER: 5200S  
5200R

POWER CONSUMPTION:

OPERATING ENVIRONMENT:

HUMIDITY:

PHYSICAL DIMENSIONS: SHELF MOUNT (5200)  
RACK MOUNT (5200R)

WEIGHT:

ENCLOSURE TYPE:

## 900MHZ

6-30 VDC

POWERED BY THE DETECTOR RACK VIA THE  
EDGE CONNECTOR

TYPICAL <100MA (STANDBY)

-40°C TO +80°C (-40°F TO 176°F)

95% NON-CONDENSING

2.00"W X 5.00"H X 6.50"D

1.125"W X 4.50"H X 7.0"D

12 OZ

MILLED ALUMINUM BLACK POWDER COAT

## 2.4GHZ

6-30 VDC

POWERED BY THE DETECTOR RACK VIA THE  
EDGE CONNECTOR

<125MA (100MW TX)

-40°C TO +80°C (-40°F TO 176°F)

95% NON-CONDENSING

2.00"W X 5.00"H X 6.50"D

1.125"W X 4.50"H X 7.0"D

12 OZ

MILLED ALUMINUM BLACK POWDER COAT

## SOFTWARE SPECIFICATIONS

RADIO CONFIGURATION:

SPECTRUM ANALYZER:

REMOTE DIAGNOSTICS & CONFIGURATION

## 900MHZ

YES

YES

YES

## 2.4GHZ

YES

YES

YES

## INTERFACE SPECIFICATIONS

SERIAL PORT:

DATA INTERFACE: STANDARD  
OPTIONAL

DATA RATE:

DATA FORMAT:

DATA BITS:

DATA TRANSMISSION:

DATA RATE IN RF CHANNEL:

## 900MHZ

DB9-F

RS232 ASYNCHRONOUS

RS485 (2 OR 4 WIRE) (SHELF MOUNT ONLY)

1200 BPS - 115.2 KBPS

PARITY NONE, ODD OR EVEN

7 OR 8

KEY-BY-DATA OR RTS DATA INPUT FRAMING  
WITH PROGRAMMABLE RTS/CTS TIME DELAY

172.8 KBPS

## 2.4GHZ

DB9-F

RS232 ASYNCHRONOUS

RS485 (2 OR 4 WIRE) (SHELF MOUNT ONLY)

1200 BPS - 115.2 KBPS

NONE, ODD OR EVEN

7 OR 8

KEY-BY-DATA OR RTS DATA INPUT FRAMING  
WITH PROGRAMMABLE RTS/CTS TIME DELAY

172.8 KBPS

## INDICATORS

TX DATA, RX DATA, PWR:

RSSI:

## 900MHZ

YES

YES

## 2.4GHZ

YES

YES



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

7, 640-42 AVENUE NE  
CALGARY, AB CANADA T2E 7J9  
encomwireless.com

P: (403) 230-1122  
F: (403) 276-9575  
encom@encomwireless.com

**ENCOR**™

Wireless Data Solutions

LEADING THE WAY IN WIRELESS COMMUNICATION FOR TRAFFIC APPLICATIONS