

SERIAL | WIRELESS INTERCONNECT 5000ESS



MODEL 5000ESS - ETHERNET (SERIAL SERVER)



MODEL 5000ESS - ETHERNET SERIAL SERVER DELIVERS

Add new or existing ENCOM 5000 Series wireless serial modems to an Ethernet / IP network using the Model 5000ESS as an Ethernet Serial Server (ESS).

The 5000ESS bridges the gap between Ethernet and Serial communications providing a Wireless Ethernet gateway for communication to remote serial-based (RS-232) devices.

Take advantage of your Ethernet communications backbone without having to change all the field devices to support an Ethernet interface.

Built around ENCOM's field proven wireless technology, the 5000ESS provides seamless wireless Ethernet connectivity with an integrated Ethernet Serial Server (ESS). The 5000ESS connects directly to any 10/100 Ethernet network and communicates to all ENCOM 5000 Series Serial Wireless Modems.

With ENCOM™, Wireless is Simple!

FEATURES

- Communicates with all ENCOM 5000 Series Wireless modems
- Integrated Wireless modem and 10/100 Ethernet Serial server
- Environmentally Hardened Web Interface
- License-Free, Frequency-Hopping Spread Spectrum Technology
- Up to 115kbps Sustained Data Throughput
- End-to-end Delays of less than 8 milliseconds
- Up to 20 Mile Range (with L.O.S.)
- Can be programmed as a 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



SERIAL WIRELESS INTERCONNECT 5000ESS

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:

POWER CONSUMPTION: TYPICAL

OPERATING ENVIRONMENT:

HUMIDITY:

PHYSICAL DIMENSIONS:

900MHZ

6-30 VDC

<100mA (STANDBY),

-40°C TO +80°C (-40°F TO 176°F)

95% NON-CONDENSING

2.00"W X 5.00"H X 6.5"D

MILLED ALUMINUM BLACK POWDER COAT

2.4GHZ

6-30 VDC

<125mA (100mW TX)

-40°C TO +80°C (-40°F TO 176°F)

95% NON-CONDENSING

2.00"W X 5.00"H X 6.5"D

MILLED ALUMINUM BLACK POWDER COA

SOFTWARE SPECIFICATIONS

RADIO CONFIGURATION:

SPECTRUM ANALYZER:

REMOTE DIAGNOSTICS & CONFIGURATION

900MHZ

YES

YES

YES

2.4GHZ

YES

YES

YES

INTERFACE SPECIFICATIONS

PROGRAMMING:

DATA FORMAT: PARITY

DATA BITS

DATA RATE:

DATA TRANSMISSION:

900MHZ

DB9-F

NONE, ODD OR EVEN

7 OR 8

1200 BPS - 115.2 KBPS

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

2.4GHZ

DB9-F

NONE, ODD OR EVEN

7 OR 8

1200 BPS - 115.2 KBPS

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

INDICATORS

TX DATA, RX DATA, PWR:

DATA PORT INDICATOR:

RSSI:

LAN LINK:

LAN ACTIVITY:

900MHZ

YES

YES

YES

YES

YES

2.4GHZ

YES

YES

YES

YES

YES



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

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Wireless Data Solutions

LEADING THE WAY IN WIRELESS COMMUNICATION FOR TRAFFIC APPLICATIONS