

Need More Information?

Visit our online resources for more detailed specification, request information, technical help and more:

- **Main Website:**
<http://www.southernavionics.com>
- **Online Store:**
<http://shop.southernavionics.com>
- **Client Support Site:**
<http://savionics.us.cloudlogin.co/wordpress/>



ISO 9001:2012 Certified

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Southern Avionics Company



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SE Series: High Power NDB Transmitters

Dual Systems

Ethernet ready for Full System Monitoring and Control

Remote Control Options

New Features: API, Logging up to 300 lines, Alarm Relay Contacts, Gas alarm with Shut Down



SE250

Power Output: 25-250W

Frequency: 190-535kHz

Input Power: 110-264VAC, 47-63Hz, or 48VDC

Dimensions: 41”(104cm)H x 25”(62cm)D x 21”(54cm)



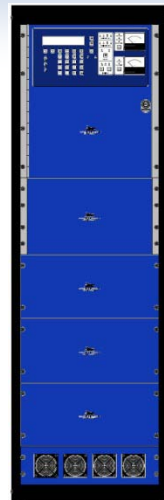
SE500

Power Output: 50-500W

Frequency: 190-535kHz

Input Power: 230 VAC, 47-63Hz, or 144 VDC

Dimensions: 41”(104cm)H x 25”(62cm)D x 21”(54cm)



SE1000

Power Output: 100-1000W

Frequency: 190-535kHz

Input Power: 220 VAC, 47-63Hz, or 144 VDC

Dimensions: 68”(173cm)H x 32”(80cm)D x 21”(54cm)W



The SE Series NDB Transmitter uses state of the art technology including powerful Renesas® Microcontrollers and Analog Devices® Direct Digital Synthesizers to provide accurate beacon signals in power levels ranging from 10 Watts to 1000 Watts carrier power.

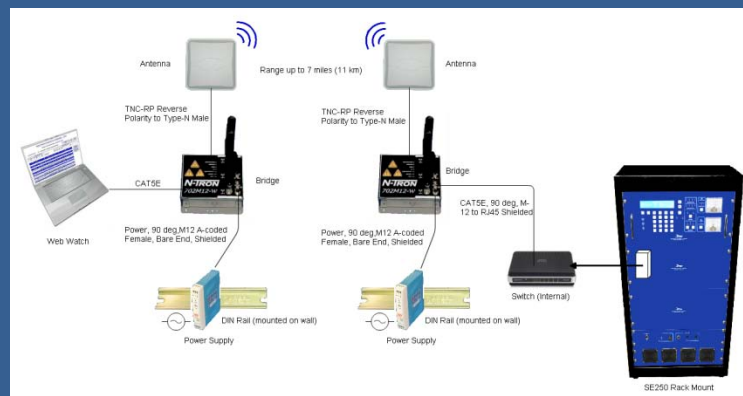
The SE unit provides simplified set-up & maintenance procedures, comprehensive BITE allowing LRU identification, and full Ethernet capability accessible by both internal and external RJ45 connections. Connect a PC directly at the transmitter or through any of our other connection options.

The SE NDB transmitter comes standard with an embedded server called Web Watch. Web Watch enables the user to control and monitor the transmitter on a laptop or PC. An IP address is either programmed or automatically assigned allowing a user to access Web Watch using any Internet connection.

Ethernet Connection Options

The SE Series Transmitters include an Ethernet server and allows control and monitoring over an Ethernet connection. No special software is required to monitor the SE Transmitter over the Ethernet.

- Ethernet Options:**
- Radio Link (*shown*)
 - Fiber Optic Converter
 - Remote Control Over Ethernet Radio Link
 - Land Line Dial-Up
 - Leased Line Modem
 - Ethernet Extender



Feature	Specification
Frequency Tolerance	5ppm TCXO Oscillator Standard *(Optional 1ppm TCXO)
Noise and Hum Levels	More than 40 dB below the carrier level
Type of Emission	NON, A2A, A3E
Spurious Emission	More the 70 dB below the carrier level
Modulation	Switching modulator/regulator, 0-95%, key pad selectable 400 or 1020 Hz, eight baud Keyer, 8 character Identifier max length
Metering	Forward and reflected power, modulation percentage, final PA voltage and current

The SE250 Rack Mount NDB Transmitter comes standard with an internal 5 Port Ethernet Switch. There are two access points to the Switch. RJ45 ports are located on the front and back of the transmitter. Two non-dedicated ports can be accessed once inside the unit to allow server connection.

The SE500 and SE1000 Rack Mount NDB Transmitters come standard with one (1) internal 5 Port Switch. The access point to the switch is located on the back of the transmitter. All 5 ports can be accessed once inside the unit.

Using the External RJ45 port, a user can connect a laptop or PC directly to the transmitter's switch. This gives access to our built-in Web Watch monitoring and control software. When connected to a network, the user can also directly connect to the unit over the Internet access.

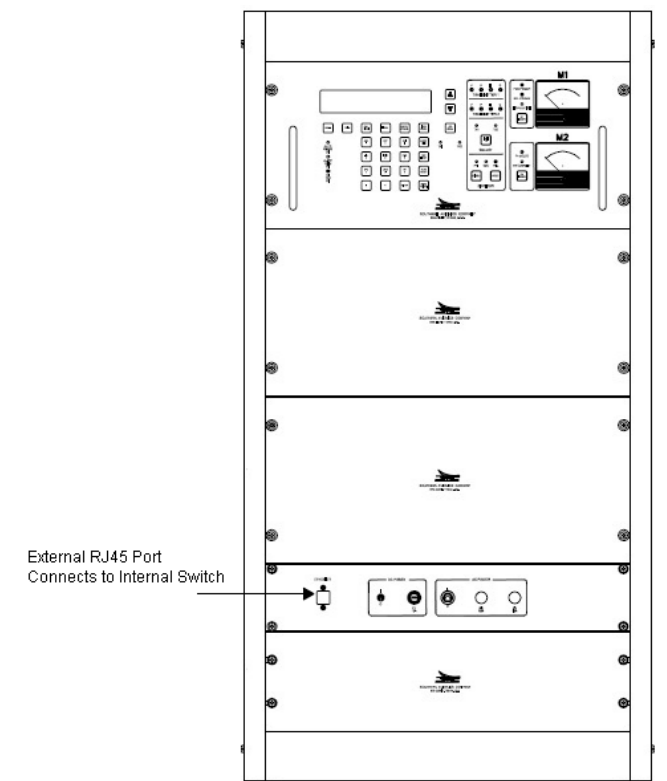
The 5 Port Switch can be used to connect to a WiFi Network, Land Line Network, or any of our Ethernet Control and Monitoring Options.

Antenna Options

- Guyed Mast - 34 ft. (10m) to 145 ft. (43m)
- Symmetrical T – 30 ft. (9m) to 200 ft. (61m)

Antenna Tuning Unit Options

- PC3000
- PC .5Kilo
- PC 1Kilo



FRONT VIEW

Remote Control Unit Connection Options

The SE Series Transmitters can be remotely monitored by RS485 with full control available at the remote controller.

- Remote Control Options:**
- Remote Control Over Ethernet Radio Link
 - RS485 to ST Multi-Mode Fiber Converter
 - RS485/RS232 to Ethernet Serial for RCU (*shown*)

