

20-62

NRZ Transmitter with Ethernet

The 20-62 transmitters are available in VHF or UHF, with user-programmable power output ranging from 50 milliwatts to 5 watts. Using programming software, each model can be tuned across its full frequency range with no hardware adjustments. All models can be configured to operate remotely via Ethernet or be controlled locally via RS232 serial or USB to provide numeric, alphanumeric and tone only POCSAG messaging.

- The 20-62 is capable of operating as an NRZ or POCSAG transmitter; the built-in POCSAG encoder can be enabled or disabled as required.
- In addition to two RS232 serial ports, a mini-USB port enhances the range of applications to which the transmitter can be applied. Input / Output expansion is also possible via an external interface. I.P connectivity is available via the TCP/IP interface.
- The USB and RS232 ports can be used to initiate paging transmissions using several industry standard protocols including Salcom proprietary protocol, Telocator Alphanumeric Protocol (TAP/PET/IXO) and Telocator Network Paging Protocol (TNPP v3.8). The ports can be configured independently making it possible to connect multiple input devices.
- Four discrete switch inputs are available which may be used to initiate messages or relay commands for remote control applications. A different pre-programmed message can be assigned to an input for high and/or low transition.
- An internal database with up to 1,000 CAP codes which can be uploaded using the Configuration Tool which allows the import of CSV or Text files.
- Configuration of the transmitter is performed via any of the communication ports using a Salcom Configuration Tool (Sacoto), which allows for the setting of all operational parameters.



Key Features

- Available in VHF or UHF bands
- Supports NRZ and POCSAG transmissions
- High VSWR tolerance
- 100% duty cycle
- Two RS232 serial ports
- USB port
- Four discrete switch inputs
- In-built POCSAG encoder
- Low voltage detection
- RF output through standard SMA connector
- CAP and pre-programmed message databases
- CAP code import from CSV or Text file
- 512 / 1200 Baud over-air
- Message buffering
- Periodic message option (watchdog)
- Programmable switch de-bounce
- Protocols: See over

Technical Specification

20-62 – VHF / UHF Transmitter



Frequency Range	140 - 174MHz - VHF 427.5 - 475MHz - UHF
Frequency Selection	User configurable
Power Supply	+13.8V typical (11 to 15 VDC range)
Power Consumption	Standby: 60mA (90mA when connected to Ethernet) Transmit: 1.0A @ 5W (typical)
Transmit Power	5W, 2W, 1W, 500mW, 100mW, 50mW (Custom values on request)
Channel Spacing	5kHz, 6.25kHz, 10kHz, 12.5kHz, 20KHz or 25kHz
Modulation	FSK with NRZ data
Deviation	±2.25kHz or ±4.5kHz
Transmit Duty Cycle	100% (with adequate ventilation)
Baud Rates	512, 1200
Message Format	POCSAG
Configuration Application	Salcom Configuration Tool (Sacoto)
Programming Cable	Standard USB mini-B, RS232 (with adaptor) or Ethernet
Serial Ports	RS232 / USB - 9600, N, 8, 1
Ethernet	TCP Client, TCP Server, UDP Client, UDP Server. Static or DHCP addressing
Serial Protocols	Salcom; TAP (PET/IXO); TNPP v3.8; TPP (half), TPP (full); ESPA 4.4.4; Match; Gent; GPS & Pulse Count; SMS; Comp1; Comp2; Visicad; Morley; FENZ; Flex; Mul-tone (half). Mul-tone (Full), also protocols compatible with: Ascom, Austco, Scope, Blick and Gaming
Trigger Inputs	Four switch inputs on RJ45 connector
Other I/O	External Modulation (0 - 5V), PTT In, PTT Out (50mA max)
Connectors	SMA: RF Output; RJ-12 (6P6C): Two RS-232 serial ports; USB-mini: USB-2 serial; RJ-45 (8P8C): Inputs and Outputs; Network RJ-45: Ethernet; Pluggable Terminal Block: DC Power in
Power Connector	2-way pluggable terminal block, 5.08mm (0.2") pitch (provided)
Environmental Protection	Not suitable for unprotected outdoor use. Should be protected from adverse environmental conditions
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Indicators	Power LED (Green) - Slow Flashing = Normal Operation Status LED (Red) - Rapid flashing = Transmitting - Slow flashing (3 -times/sec for 7 secs) = Error Condition
Weight	320g
Enclosure Dimensions	130mm x 31mm x 125mm (WxDxH) (5.12 x 1.23 x 5.04 in)
Enclosure Material	Extruded aluminium
Colour	Bright Silver Anodised Aluminium
Type Approvals	AS/NZS 4769.1:2000 + Amendment 1:2002 (RF) EN 300-224 V2.1.0. (RF), EN301 489-2 V2.1.0 (EMC) EN 60950-1:2006 (Safety) FCC CFR47 (Part 90 (RF). Part 2 (RF), Part 15 (EMC), Part 1 (Safety)
NB: All specifications and applications are indicative only and subject to change without prior notification.	