

The 20-62 transmitters are available in VHF or UHF, with user-programmable power outputs 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 or be used to message remotely using TCP or UDP.



20-62 VHF / UHF — Ethernet Transmitter

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 direct/RS232 buffered serial ports, the on-board mini-USB port enhances the range of applications to which the transmitter can be applied. Input / Output expansion is also possible via an external RJ45 interface. Connection via IP is available via the TCP/IP interface.

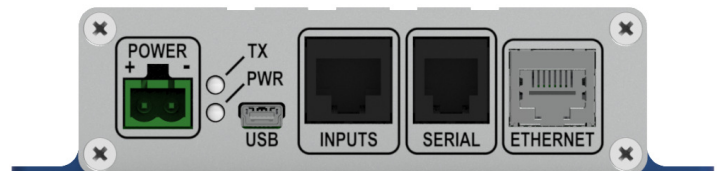
The USB and RS232 ports can be used to initiate paging transmissions using the Salcom proprietary protocol, Paging Entry Protocol (PET) or Telocator Alphanumeric Protocol (TAP) protocol. These ports can be used concurrently making it possible to connect a telephone interface unit and still initiate paging transmissions via the USB port.

Four discrete inputs are supported which may be used to initiate relay commands for remote control applications.

For paging applications a different pre-programmed message can be assigned to an input on high and/or low transition. The unit also supports low voltage detection on the power input. Up to 1,000 CAP codes which can be uploaded using the Configuration Tool. This tool allows for the import of either CSV or Text files into the internal database.



Configuration of the transmitter is performed via the mini-USB port, serial port or the Ethernet port using a Salcom Configuration Tool, which allows for the setting of all operational parameters.




Key Features:

- Supports NRZ and POCSAG transmissions
- High VSWR tolerance
- 100% duty cycle
- Two direct/RS232 buffered serial port
- USB port
- Mini USB Port
- Four discrete inputs
- POCSAG encoder (programmable on/off)
- RF output through standard SMA termination
- Internal database holds 1,000 RIC/CAP codes to support installations where larger pager numbers are utilised.
- CAP code import from CSV or Text file
- 512 / 1200 Baud
- Buffered messages
- Input timing control (watchdog)
- Programmable de-bounce control
- Protocols: See over

Designed in New Zealand

A  designed system
www.salcom.com

Sea, Air & Land Communications Ltd (Salcom)
10 Vanadium Place, Addington, Christchurch 8024
Tel: +64 (0)3 379 2298 E: sales@salcom.com

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, 25kHz	
Modulation	FSK with NRZ data	
Deviation	±2.25kHz or ±4.5kHz	
Transmit Duty Cycle	100% (with adequate ventilation)	
Baud Rate	512, 1200	
Message Format	POCSAG	
Configuration Software	Salcom Configuration Tool (Sacoto)	
Programming Cable	Standard USB mini-B, RS232 (with adaptor) or Ethernet	
Serial Port	9600 , N, 8, 1; RS232 / USB	
Serial Protocols	Salcom; TAP (PET); TNPP; TPP (half), TPP (full); ESPA 4.4.4; Match; Gent; GPS & Pulse Count; SMS; Comp1; Comp2; Visicad; Flex; Multitone (half). Multitone (Full), also protocols compatible with: Ascorm, Austco, Scope, Blick and Gaming	
Trigger Inputs	Four switch inputs on RJ45 connector	
Other I/O	Ethernet, External Modulation (0 - 5V), PTT In, PTT Out (50mA max)	
Connectors	Serial Ports (RS232): two serial ports on one RJ12 (6P6C) Input / Outputs: RJ45 (8P8C) USB serial ands Ethernet SMA RF Output	
Power Connector	DC power plug with screw terminals 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) - On = Transmitting - 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) Industry Canada	

Programming software available at: www.salcom.com

Support: Tel: +64 (0)3 379 2298 Email: sales@salcom.com

