

VHF/UHF WIRELESS RADIO MODEM 6661-1249-1



132-174 MHz
380-512 MHz
928-960 MHz
Ideal for SCADA



FEATURES

- Remote Online Diagnostics to monitor & maintain communications links Power, Temperature, Voltage, Signal Strength, Antenna/feedline condition, & data decode performance transmitted online
- Up to 5 watts RF output in UHF, VHF & 900 MHz
- Digital I/Os operate switches, relays and sensors
- Programmable, transparent modem with real-time data transfer
- CWID & CSMA
- Error-free data at up to 19200 bps over air in a 25 kHz channel, 9600 pbs in a 12.5 kHz channel, 4800 bps in a 6.25 kHz channel
- No dribble bits (extraneous data bits to terminal device)
- DOX - data-activated transmit mode automatically activates transmitter without RTS handshake from terminal
- Supports CTS flow control where terminal rate exceeds network rate
- Low power consumption modes - 3 ways to reduce power consumption for solar or battery powered remote sites: sleep, suspend & variable output
- 132 - 174 MHz, 380 - 512 MHz, 928 - 960 MHz
- Optional DIN-rail mounting

RECEIVER & TRANSMITTER	
RECEIVE OPERATION	Continuous (no tuning required)
TRANSMIT OPERATION	Continuous (no tuning required)
TX ATTACK TIME	<7 seconds
RF OUTPUT POWER	1-5 Watts, PC Programmable
DUTY CYCLE	50% @ 5 watts, 30 sec max transmit, extended w/cooling fan
COM PORT	
INTERFACE	EIA RS-232
DATA RATE	1200- 19200 bps
PROTOCOL	Transparent: 7 or 8 data bits; 1 or 2 stop bits; even, odd or no parity
SETUP/DIAGNOSTIC PORT	
DATA FORMAT	Proprietary binary for setup, ASCII for diagnostics
DATA RATE	9600 bps

SPECIFICATIONS

MODEM			
CHANNEL BANDWIDTH	6.25 kHz	12.5 kHz	25 kHz
DATA RATE (PC PROGRAMMABLE)	2400, 4800 bps	4800, 9600 bps	4800, 9600 bps
MODULATION	DRCMSK	RTSCTS Delay	4 msec
BIT ERROR RATE (1X10 ⁻⁶)	@.35 μ V (2400 bps) @1.4 μ V (9600 bps) 1.0 μ V (9600 bps) 2.3 μ V (19,200 bps)		
GENERAL			
BAND	UHF	VHF	900 MHz
FREQUENCY RANGE	380-512 MHz	132-174 MHz	928-960 MHz
CHANNEL BANDWIDTH	6.25, 12.5 or 25 kHz	6.25, 12.5 or 25 kHz	12.5 or 25 kHz
FCC TYPE ACCEPTANCE	NP4MCUB5Q (6.25 kHz) EOTMCUB5R	4MCA5Q (6.25 kHz) EOTMCA5R	EOTMCUC5R
IC TYPE ACCEPTANCE	773195561A	773195562A	7731955611A
EUROPEAN APPROVAL	CE Mark (403-470 MHz)	CE Mark	
	(CE approval limited to 4800 bps in a 12.5 kHz channel)		
ETSI	300.113 (403-470 MHz)	300.113 (see note above)	
CURRENT DRAIN			
TRANSMIT @13.3 VDC	<2.6 A		
RECEIVE @13.3 VDC	<220 mA (with a terminal connected to the COM port)		
POWER SAVING MODE	15 mA nominal		
FREQUENCY TOLERANCE	0.5 ppm (6.25 kHz)	1.0 ppm (6.25 kHz)	
	1.5 ppm	2.5 ppm	1.5 ppm
OPERATING VOLTAGE	10-16 VDC		
OPERATING TEMP.	-30° C to +60° C		
DIMENSIONS	4.5" x 2.4" x 4.75" (11.4 cm x 5.6 cm x 12.1 cm)		
SHIPPING WEIGHT	1.6 lbs. (0.73 kg)		
OPERATING MODE	Simplex or half duplex		
BANDWIDTH W/O TUNING	450-470: 20 MHz	132-150: 18 MHz	928-960: 32 MHz
	all other ranges: 16 MHz	150-174: 24 MHz	