

General Purpose Transparent Data Modem

Application Examples

- Farm vehicle management
- Utilities (water works/electricity meters)
- Airport ground vehicle management
- Various gate control applications
- Oil (pipe lines/well drilling) management
- Road/highway construction traffic management
- Weather/environment monitoring
- Traffic monitoring systems



RS-232 + Ethernet Version



RS-232 Version



Pipe lines



Remote monitoring



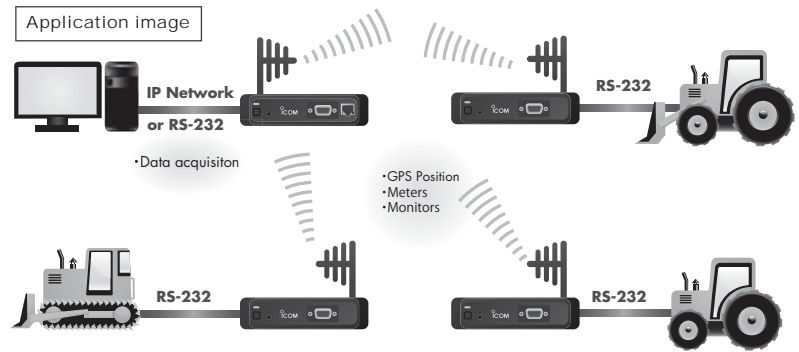
Farming



Construction

Features

- 9600bps (at 12.5kHz) and 4800bps (at 6.25kHz) data mode programmable
- RS-232 and RS-232 + Ethernet versions
- Fast data transfer using 4-level FSK modulation suitable for real-time data monitoring
- 25W, 10W and 6W three-step RF output power
- BNC antenna connector
- Individual, group and all calls
- Data encryption function (500 codes)
- Memory channel selection via PC control command
- Optional CS-F5120DD, Programming Software and OPC-2218LU, USB type Programming Cable



SPECIFICATIONS

	IC-F5122DD	IC-F6122DD
GENERAL		
Frequency coverage	136–174MHz	400–470MHz
Number of channels	128 channels	
Type of emission	8K30F1D, 4K00F1D (4FSK)	
Channel spacing	12.5/6.25kHz	
Over-the-air data rate	9600/4800bps	
Power supply requirement	13.2V DC	
Current drain (approx.)	Tx High (25W)	6A
	Rx Standby	400mA
Antenna impedance	50Ω (BNC)	
Operating temperature range	–30°C to +60°C	
Dimensions (WxHxD) (Projections not included)	150x40x134.7mm	
Weight (approx.)	900g	
Ethernet interface (Depending on version)	10BASE-T (Full/Half-duplex), 100BASE-TX (Half-duplex) with Auto-negotiation function	
RS-232 connection rate	1200, 2400, 4800, 9600, 19200, 38400 baud	
TRANSMITTER		
Output power (at 13.2V DC)	25W, 10W, 6W (Hi, L2, L1)	
Spurious emissions	0.25μW (≤ 1GHz), 1.0μW (> 1GHz)	
FSK error	2.5% typ. (DN/DVN)	
Frequency stability	±1.0ppm	
RECEIVER		
Sensitivity (at 1% BER)	–4dBμV/–5dBμV emf typ. (DN/DVN)	
Adjacent channel selectivity	64dB/60dB typ. (DN/DVN)	
Spurious response	76dB/70dB typ. (DN/DVN)	
Intermodulation	68dB/66dB typ. (DN/DVN)	

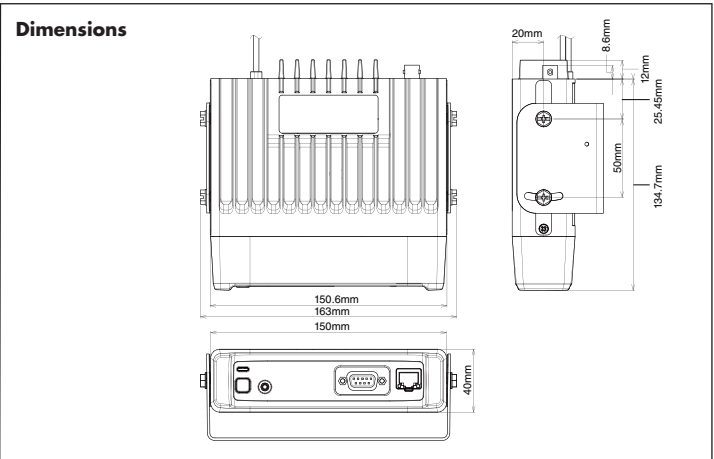
Measurements made in accordance with EN301 166 (DVN) and EN300 113 (DN).
 DN: Digital Narrow, DVN: Digital Very Narrow.
 All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Humidity	507.5	II
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Supplied Accessories • DC power cable • Mounting bracket kit



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