

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



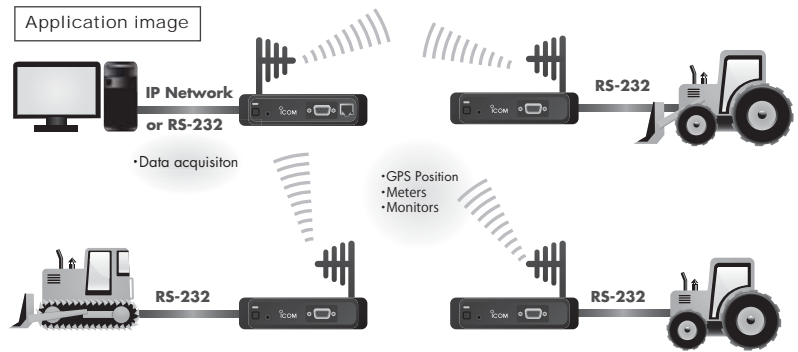
Farming



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	0.25μV (≤ 1GHz), 1.0μV (> 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.

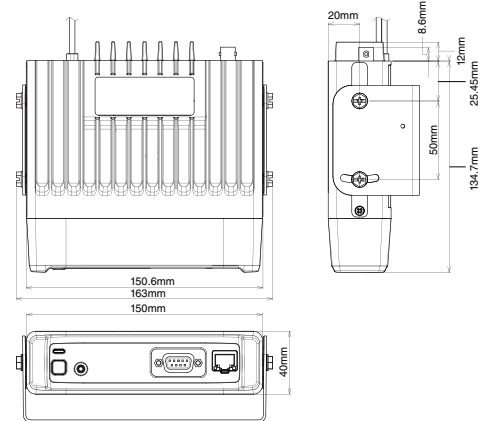
Applicable U.S. Military Specifications

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

Dimensions



Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. All trademarks are the properties of their respective holders.

Icom Inc. 1-1-32, Kami-minami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world **Count on us!**

Icom America Inc.
12421 Willows Road NE,
Kirkland, WA 98034, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: <http://www.icomamerica.com>

Icom (Europe) GmbH
Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
E-mail: info@icom-europe.com
URL: <http://www.icomeurope.com>

Icom France s.a.s.
Zac de la Plaine,
1 Rue Brindejone des Moulinais, BP 45804,
31505 Toulouse Cedex 5, France
Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
E-mail: icom@icom-france.com
URL: <http://www.icom-france.com>

Asia Icom Inc.
6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
E-mail: sales@asia-icom.com
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

Icom Canada
Glenwood Centre #150-6165
Highway 17A, Delta, B.C.,
V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: <http://www.icomcanada.com>

Icom Spain S.L.
Ctra. Rubi, No. 88 "Edificio Can Castanyer"
Bajos A 08174, Sant Cugat del Valles,
Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: <http://www.icomspain.com>

Icom (Australia) Pty. Ltd.
Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: <http://www.icom.net.au>

Shanghai Icom Ltd.
No. 101, Building 9, Caifuxingyuan Park,
No. 188 Maoting Road, Chedun Town,
Songjiang District, Shanghai, 201611, China
Phone: +86 (021) 6153 2788
Fax: +86 (021) 5765 9987
E-mail: bjicom@bjicom.com
URL: <http://www.bjicom.com>

Icom Brazil
Rua Itororó, 444 Padre Eustáquio
Belo Horizonte MG,
CEP: 30720-450, Brazil
Phone: +55 (31) 3582 8847
Fax: +55 (31) 3582 8987
E-mail: sales@icombrasil.com

Icom (UK) Ltd.
Blacksale House, Altira Park,
Herne Bay, Kent, CT6 6GZ, U.K.
Phone: +44 (0) 1227 741741
Fax: +44 (0) 1227 741742
E-mail: info@icomuk.co.uk
URL: <http://www.icomuk.co.uk>

Icom New Zealand
39C Rennie Drive, Airport Oaks,
Auckland, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: <http://www.icom.co.nz>