3212 HF DATA MODEM

↗ **FEATURES** AT A GLANCE

- **High speed waveforms**
- **Reliable email over HF**
- **ALE compatibility**
- **Ethernet & RS232 interfaces**
- **Built to last**

Codan's 3212 HF Data Modem ensures you get connected anywhere by providing reliable, cost-effective, high speed mobile data communications in remote areas where little or no telecommunications infrastructure exists.

The 3212 is based on the latest modem technology with an error-free data rate of up to 7200 bps uncompressed, typically four times faster than comparable competitors' modems.

HIGH SPEED WAVEFORMS

The 3212 HF Data Modem uses waveforms derived from Military Standard (MIL-STD) Waveforms, which are based on STANAG 4539 and modified to provide optimal performance over commercial 2.4 kHz HF channels.

RELIABLE EMAIL OVER HF

With Codan's UUPlus™ *Email for HF* software, the 3212 provides an easy and reliable means to send email over HF from remote areas.

ADVANCED AUTOMATIC LINK ESTABLISHMENT (ALE) COMPATIBILITY

When used with FED-STD-188-141B ALE, the 3212 HF Data Modem and Transceiver establish the link by automatically selecting the best channel, link quality and data rate.

ETHERNET & RS232 INTERFACES

Modem control is provided through a configurable Ethernet port using either a fixed IP or DHCP addressing, or an RS232 port. All ports are optically isolated for maximum protection.

BUILT TO LAST

CODAN™ radios are well-known for their ruggedness and reliability, with the 3212 HF Data Modem no exception. Using a robust aluminium chassis it is proven to withstand the rigours of mobile, base station and manpack use.

SPECIFICATIONS

SUPPORTED WAVEFORMS

Standard	Modulation	Data rates (bps)
STANAG 4539 (modified)	Coded PSK / QAM	75, 150, 300, 600, 1200, 2400, 3600, 4800, 6000, 7200
Codan 9001/9002/3012	Proprietary CHIRP (Link Est)	80
	16-Ch QPSK	2400

GENERAL

Built–In–Test	Power-on self test, selectable internal audio and digital loop-back
Data interfaces	RS232 Asynchronous autobanding Full opto-isolation of all signals Ethernet 10/100 Base-T, selectable IP address or DHCP, selectable port number
Receive audio	600 Ω balanced, −30 to +3 dBm, Automatic Gain Control
Transmit audio	600 Ω Balanced, −30 to +10 dBm selectable
Keyline (PTT)	Open Collector, active low
Power source	13.5 V DC nominal (250 mA typical supply current) 10.5 to 15 V DC operational, reverse polarity and overvoltage protected to ±50 V
Cooling	Passive convection
Temperature	0 to +55°C operating (−40 to +60°C storage) 32 to 131°F operating (−40 to +140°F storage)
Size	210 mm W x 240 mm D x 65 mm H (8.3" W x 9.4" D x 2.6" H)

ACCESSORIES

- Cables to suit NGT™ or 2110 series Transceivers
- Vehicle mounting cradle
- UUPlus™ email software

RECOMMENDED TRANSCEIVERS

CODAN™ data capable NGT™ series Transceivers fitted with the following options:

- Option High Speed Data
- Option Fan
- Codan data capable 2110 series Transceivers

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

RADIO COMMUNICATIONS

T: +61 8 8305 0311 ▪ **F:** +61 8 8305 0411 ▪ **E:** sales@codanradio.com
Codan Limited ▪ 81 Graves Street ▪ Newton South Australia 5074 ▪ Australia

www.codanradio.com

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