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 bit/s 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 (bit/s)
STANAG 4539 (modified)	Coded PSK / QAM	75, 150, 300, 600, 1200, 2400, 3600, 4800, 6000, 7200
Codan 9001 / 9002 / 3012	Proprietary CHIRP (Link Est) 16-Ch QPSK	80 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)
Weight	1.95 kg

ACCESSORIES

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

RECOMMENDED TRANSCEIVERS

CODAN™ data capable Envoy™ / NGT™ / 2110 series Transceivers fitted with the following options:

- Option High Speed Data (NGT™ / 2110 only)
- Option Fan (NGT™ / Envoy™ only)

CODAN RADIO COMMUNICATIONS

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