Codan 3212 HF Data Modem

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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-5TD) 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 optical 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. Usinga robust aluminium chassis it is proven to withstand the rigours of mobile, base station and manpack use.

Accessories	Recommended Transceivers
☑ Cables to suit NGT or 2110 series Transceivers	☑ Codan data capable NGT series Transceivers fitted with the following options: - Option High Speed Data - Option Fan
☑ Vehicle mounting cradle	
☑ UUPlus email software	☑ Codan data capable 2110 series Transceivers

Specifications

Supported Waveforms

Standard	Modulation	Data Rates (bps)
STANAG 4539 (modified)	Coded PSK/OAM	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 Ohm balanced, -30 to +3 dBm, Automatic Gain Control
Transmit audio	600 Ohm 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 over-voltage 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 Wx240 mm Dx65 mm H (8.3" W x9.4" Dx 2.6м H)
Weight	2 kg (4.4 lb)
Compliance	CE. FCC and C-Tick

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