

CODAN HF Express™

The right solution for you

Codan's HF Express™ software, used with our 3112 High Speed HF Data Modem, ensures you get connected anywhere by providing reliable, cost-effective, high speed data communications in remote areas where little or no telecommunications infrastructure exists.

HF Express™ enables interactive Chat and file transfer capabilities with a simple to use Windows® user interface, powered by Codan's STANAG 5066 Stack.

Fast and reliable

Codan's STANAG 5066 Stack compresses data and controls the modem data rate to give you the best and most reliable performance in existing channel conditions. Reliability is guaranteed with error-free data transmission provided by the 3112's inbuilt Forward Error Correction (FEC) and interleavers, which help in recovering minor data errors, and the STANAG 5066 that ensures re-transmission if major data loss or errors occurs.

Simple to use and install

It only takes seconds to install HF Express™ and STANAG 5066 Stack with all parameters easily changeable and settings, including Contact Lists, are conveniently stored in files and can be easily copied or even sent over-the-air implementation.

HF Express™ is simple to use with two main tabs, the Chat tab and File Transfer tab. The Chat tab operates in a Windows® Messaging software. The File Transfer tab provides drag and drop file transfer capabilities similar to its familiar Windows® style Chat and File Transfer interface, using HF Express™ is made easy, so you won't rec

Advanced Automatic Link Establishment (ALE)

When used with HF Express™, the 3112 HF Data Modem supports FED-STD-1045 ALE and JITC certified MIL makes establishing the best link quick and easy by automatically selecting the best channel to use and intelligently rate accordingly.

Superior support

Codan's HF Express™ and STANAG 5066 Stack, and our 3112 High Speed HF Data Modem are backed by a network and an industry leading three year warranty.

Key Features

Interactive Real-Time Chat

- **Confirmation of delivery**
- **Individual or broadcast addressing**
- **Cross-vendor interoperability**

High Speed File Transfer

- **Compression for up to 4x speed increase**
- **Capable of bi-directional operation**
- **Operates simultaneously with Chat**
- **Progress bars to indicate file transfer status**

Intuitive User Interface

- Easy installation and setup
- Chat similar to current messaging applications
- Save and Recall Chat sessions
- File transfer with drag and drop Windows® Explorer style interface
- Transfer log of file movements
- File-based Contact Lists for easy distribution
- Auto-selection of reply address



- Disconnect button for quick Voice override

Standards

- STANAG 5066 Protocol
- 3112 HF Data Modem with MIL-STD Waveforms and MIL-STD ALE support

Technical specifications

Supported Waveforms (Codan 3112 HF Data Modem required)

Standard	Modulation	Data Rates (bps)
MIL-STD-188-110A	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200, 2400 4800
MIL-STD-188-110B (Serial Tone)	Coded PSK/QAM Uncoded QAM	3200, 4800, 6400, 8000, 9600 12800
MIL-STD-188-110B (Parallel Tone)	QDPSK	75, 150, 300, 600, 1200, 2400
STANAG 4415	NATO Robust	75
STANAG 4539	Coded PSK/QAM	75, 150, 300, 600, 1200, 2400 3200, 4800, 6400, 8000, 9600

General

Chat	STANAG 5066 v1.2 Annex F.7 Operator Orderwire (HFCHAT), SAP ID 5, ARQ or Broadcast
File Transfer	STANAG 5066 v1.2 Annex F.12 Compressed File Transport Protocol (CFTP), SAP ID 12
Initial Data Rate Selection	Manual, history based, or ALE LQA
Data Rate Control	Automatically controlled by measured Bit Error Rate (BER); can be disabled
Transceiver ALE Support	FED-STD-1045 ALE (Link establishment only) MIL-STD-188-141B ALE (Link establishment and initial data rate control based on LQA) Supports up to 200 ALE Addresses and non-ALE capable transceivers
Minimum System Requirements PC	Pentium 3 CPU, 128 MB RAM, 20MB HDD, one Ethernet or three COM ports Operating System: Microsoft Windows® 2000 or XP

CD Contents

- STANAG 5066 Stack
- STANAG 5066 User Manual
- HF Express™
- HF Express™ User Manual
- Acrobat® ReaderSTANAG 5066

Recommended Transceivers

- Codan data capable NGT series Transceivers fitted with the following options:

- Option High Speed Data
- Option 2.7 kHz BW Filter
- Option FanCodan data capable NGT series
- Codan data capable 2110 series Transceivers fitted with:
 - Option 2.7 kHz BW Filter

STANAG 5066 Features

- Modem Data Rate Control for highest transfer speed
- Automatic Repeat Request (ARQ) for robustness and error-free transmission
- ALE support including advanced Link Quality Analysis (LQA) - simple to operate, channel optimised
- Full support of all 3112 HF Data Modem Waveforms
- Ethernet, asynchronous serial or synchronous serial modem interface
- System tray icon for quick access
- Option for external data encryption unit

Low Cost of Ownership

- Low initial outlay
- No usage charges per kByte of data
- Firmware upgradeable for future waveform support

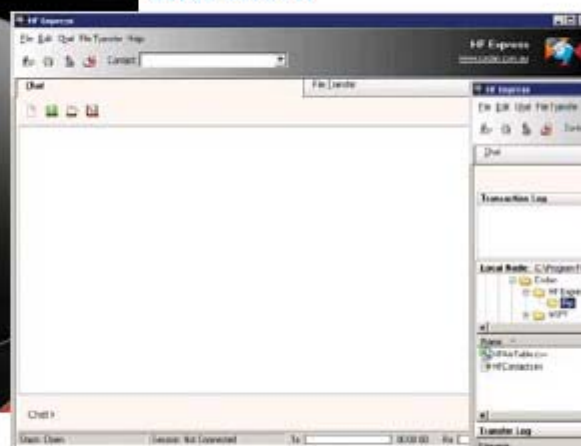
No Risk

- Codan's renowned reliability, worldwide support and three year warranty

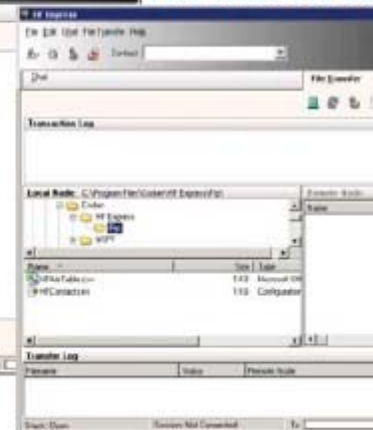
Install screen



Chat screen



File Transfer screen



HF Express™

http://hf-ssb-transceiver.at-communication.com/en/codan/hf_ssb_hf_express_tm.html