CNHF-ID

Turn-key solution to enhance you existing HF and VHF radios

CNHF Interoperability Device (CNHF-ID) is a turn-key solution to enhance your existing HF and VHF radios performance and make radios from different vendors interoperable between each other. CNHF-ID is a secure, small form factor and low power consumption device which contains all necessary hardware and software to upgrade legacy radios to secure, digital radios capable of using secure voice and data. For legacy digital radios CNHF-ID offers improved performance and easier integration to other systems.

Bringing unparalled performance to other systems

CNHF-ID turns any radio to digital radio with data capabilities

Over the air interoperability with CNHF1 and CNHF Manpack

Small form factor, low weight, low power consumption

Powered from radio or using internal AA batteries.

Extremely flexible, secure Linux platform enables fielding of new features and keeping platform secure

Built-in GNSS enables with automatic position reporting

Number of interfaces to connect to other systems: USB-C, Ethernet, WIFI and LTE

Built-in UI and webUI with email and instant messaging clients

Standard SMTP, IMAP and XMPP interfaces enables the use of existing messaging and email software and easy integration to other systems and user terminals

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Technical specifications

Radio Freqyency Band	HF, VHF, UHF
Software platform	Linux
Platform Security	Secure boot, signed software, ecrypted at rest, webUI: TLS
Radio Interface	RS-232, Audio in/out
User Interfaces	Ethernet, USB-C, Audio in/out, WLAN, LTE
GNSS	Commercial built-in GNSS w/ spoofing detection and AJ features
Powering	Powering from radio, USB-C or internal batteries (2 x AA)
Power Consumption	< 3 W
Size	~200mm (W), ~110mm (H), ~30mm (L)
Weight	
Waveforms	CNHF Robust Mode. STANAG & MIL-STD waveforms per request.
WAVEFORM: CNHF ROBUST MODE	
Data Rate	Up to 19.2 kbit/s (depending on radio capabilities)
FEC	Yes
Security	AES256, static and automatically changing keys
ALE	Asynchronous, synchronous
Linking Time	Depending on number of configured calling channels
Linking Channels	Unlimited
Services	Unicast and broadcast data, email w/attachments, instant messaging, location reporting
Service Interfaces	Email: POP3, IMAP, SMTP. Instant messaging: XMPP
User Interface	Device UI, webUI

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