

# CNHF Evolve

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



CNHF Evolve 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 Evolve 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 Evolve offers improved performance and easier integration to other systems.

## Bringing unparalleled performance to other systems

CNHF Evolve 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, USB-C or internal 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



## Technical specifications

<b>Radio Frequency Band</b>	HF, VHF, UHF
<b>Software platform</b>	Linux
<b>Platform Security</b>	Secure boot, signed software, encrypted at rest, zeroize function, webUI: TLS
<b>Radio Interface</b>	RS-232, Audio IN & OUT, PTT output
<b>Interfaces</b>	Ethernet, USB-C, Audio handset
<b>WLAN</b>	Built in with antenna. AP & client modes
<b>LTE</b>	Built in with antenna
<b>GNSS</b>	Commercial built-in GNSS w/ spoofing detection and AJ features
<b>Powering</b>	Powering from radio, USB-C or internal batteries
<b>Power Consumption</b>	< 4 W
<b>Size</b>	~200mm (W), ~110mm (H), ~30mm (L)
<b>Weight</b>	~550g (with batteries)
<b>Waveforms</b>	CNHF Robust Mode. STANAG & MIL-STD waveforms per request.
<b>WAVEFORM: CNHF ROBUST MODE</b>	
<b>Data Rate</b>	Up to 19.2 kbit/s (depending on radio capabilities)
<b>FEC</b>	Yes
<b>Security</b>	AES256, static and automatically changing keys
<b>ALE</b>	Asynchronous, synchronous
<b>Linking Time</b>	Depending on number of configured calling channels
<b>Linking Channels</b>	Unlimited
<b>Services</b>	Unicast and broadcast data, email w/attachments, instant messaging, digital encrypted voice (unicast, multicast, broadcast), blue force tracking
<b>Service Interfaces</b>	Email: POP3, IMAP, SMTP. Instant messaging: XMPP
<b>User Interface</b>	Device UI: 320 x 480 colour display, arrow keys. Web UI: Web-based user interface with access control.