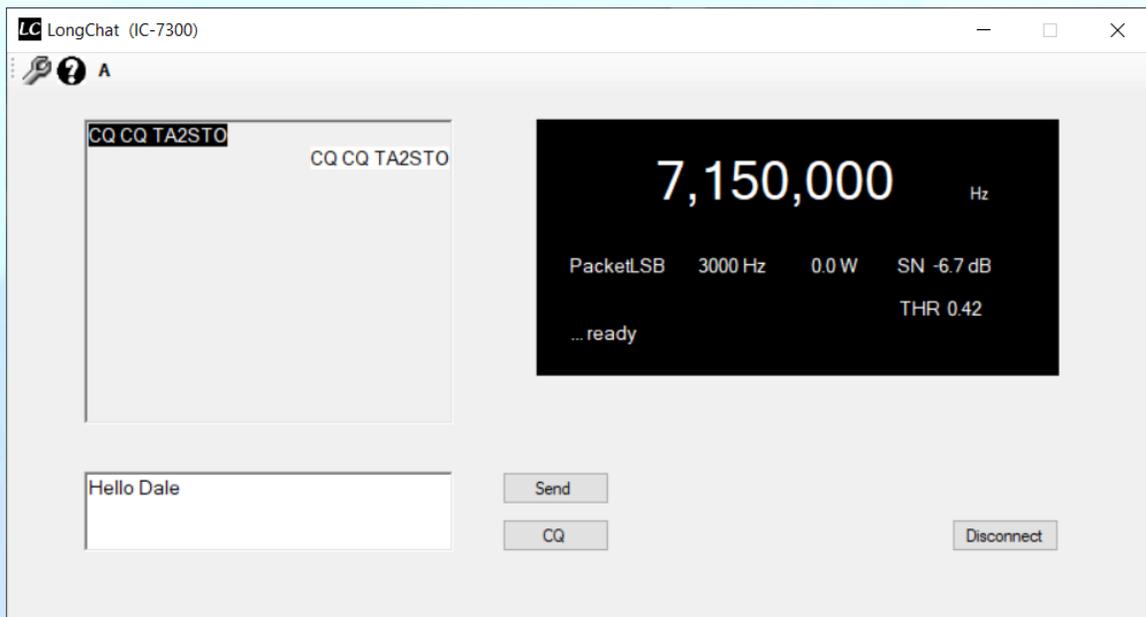


QRP/long distance chat software ...

LongChat

Ham Radio Text Chat Software by TA2STO



Chirp based encoding for SSB, FM and other modes:

- Forward error correction codes
- 7 ASCII chars /second
- BW (300-2700 Hz)
- Eb/No: 5 dB
- SNR: -12 dB

Brief Description

LongChat is a low-power (QRP) / low bit-rate text chat software application over the ham radios connected to a PC.

Chirp symbols with an audio bandwidth of 2400 Hz (300-2700 Hz) are generated on the PC side for encoding the messages.

Baseband audio signal is then transferred from PC to ham radio for modulation at the selected mode. SSB, FM and other types of modulation modes can be used.

Forward error correction codes are used to correct messaging errors

Current version is tested on ICOM-7300 and YAESU FT991A radios. Other radios are supported but not tested yet.

Future improved versions will support higher data rates or lower S/N ratios.

Since the software is continually improved and data structures may have changed, newest version needs to be used for compatibility with all users. To ensure this, software will remind you to download and use the latest version when a new version is ready.

Specifications

Usable data rate (net user data) is 7 ASCII characters per second at -12 dB signal to noise ratio.

Eb/No (Energy per Bit to the Spectral Noise Density) is 5 db

Measurement of received message SNR.

Measurement of chirp frequency shift in SSB mode.

You may download the software, user manual and brochure at the link below.

<https://drive.google.com/drive/folders/1G5DnKJXxJhi33GzugZ-eHWpfGYjEVhSI?usp=sharing>