

# REMOTE SSB LINK

*FOR HF / 6m TRANSCEIVER*

# REMOTE LINK and INTERFACE



# INITIAL CONSIDERATIONS

- Full radio control
  - Mode
  - Filters
  - Tuning
  - Power
  - etc
- Continuous receiver radio stream
- Transmitter PTT control and transmit audio

# OVERVIEW

- Internet link
- TX / RX audio & PTT – Allstarlink
- Radio functional control – Ham Radio Deluxe
- No port forwarding requirements
- 12 volt operation

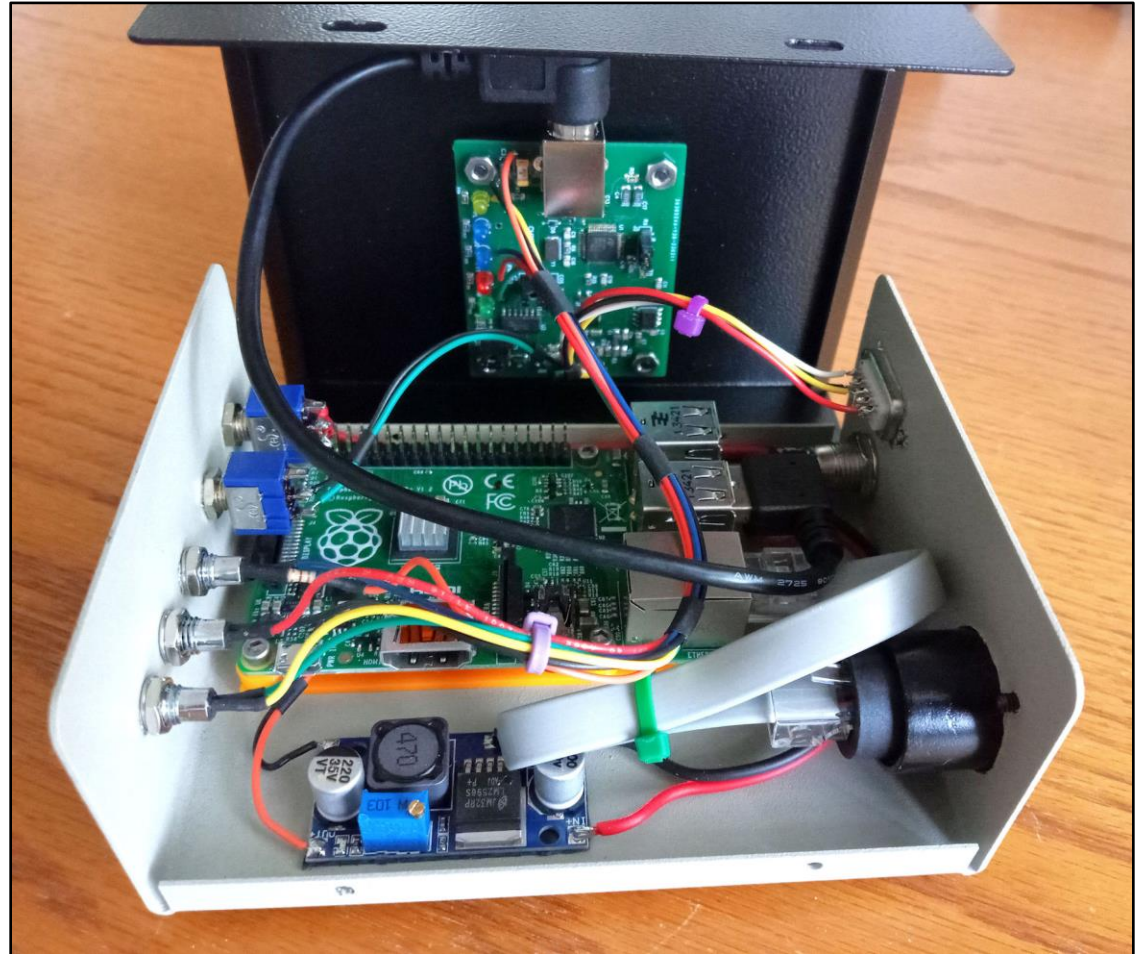
# TRANSCEIVER LINK



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# LINK DETAIL

- Raspberry Pi Allstarlink node
- DC-DC +5v switching regulator
- K5TRA USB interface board
- SimpleUSB
- duplex=0
- linktolink = yes



# RADIO LINK



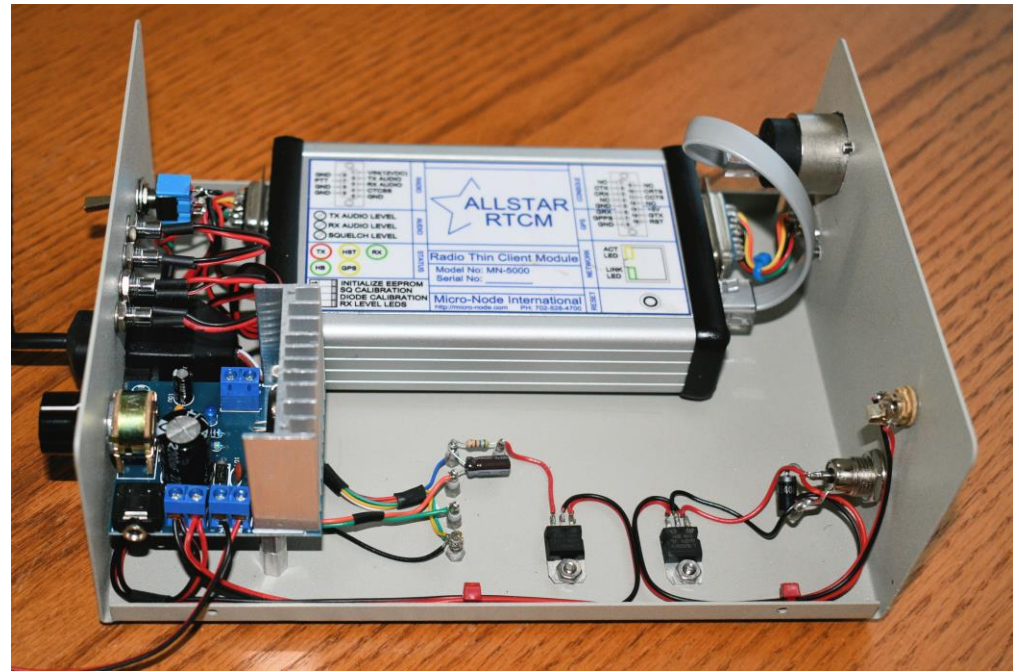
- RX toggle turns ON RX streaming
- RX active LED
- TX active LED
- HB "*Heart Beat*" LED

- Ethernet jack
- DB-9 radio interface
- Coaxial +12v jack



# RADIOLESS REMOTE DETAIL

- RTCM web interface - Allstarlink
- RX audio amplifier with volume control
- DTMF mic control
- Full duplex control
- Auto-reconnect
- duplex=3
- Voter interface
- Use function cop,8



# RADIOLESS REMOTE INTERFACE

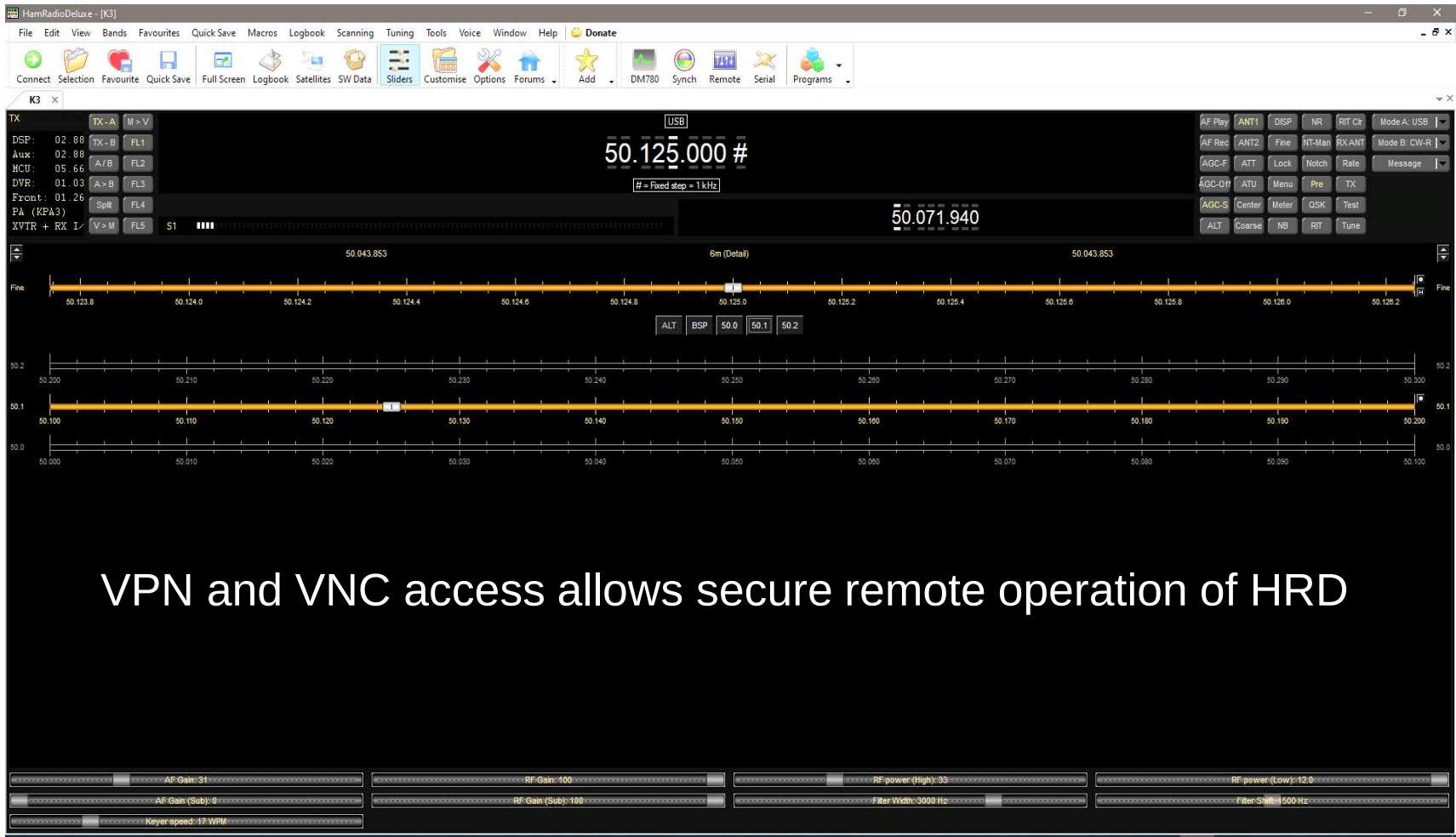


- DTMF node control
- Mic PTT LED
- NET active LED
- HB "*Heart Beat*" LED

- Ethernet jack
- RS232 programming
- Coaxial +12v jack



# HAM RADIO DELUXE RADIO CONTROL



VPN and VNC access allows secure remote operation of HRD

# FINAL COMMENTS

- The interface works very well
- VPN provides secure connection
- Allstar node is private access

