

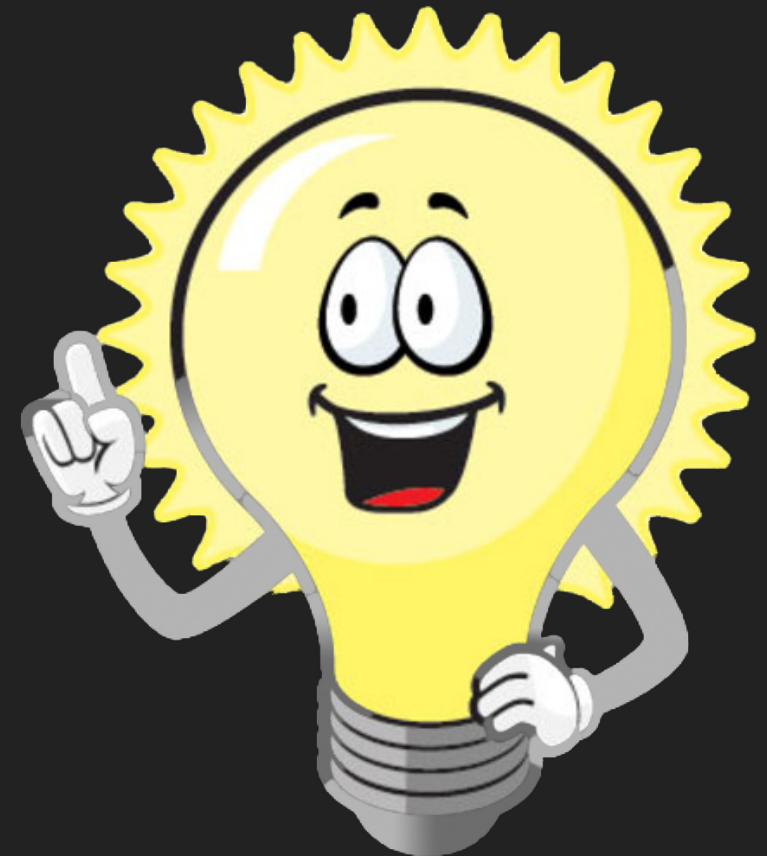
HOWARD NURSE, W6HN

RIGPI STATION SERVER



AN IDEA IS BORN

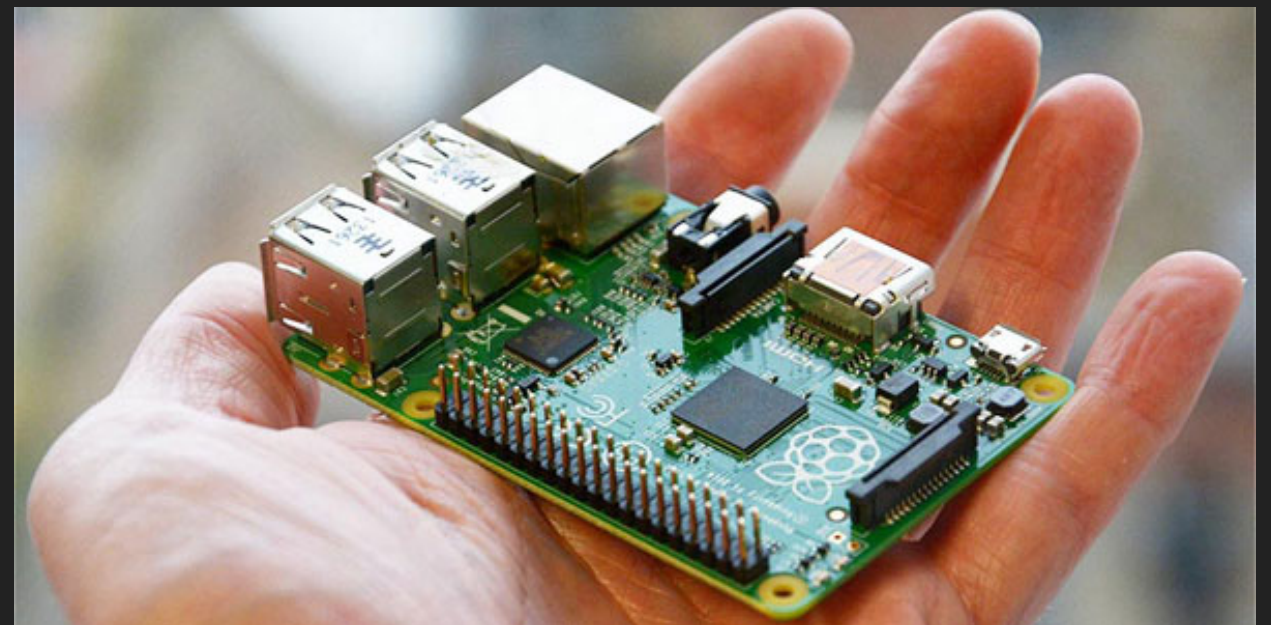
- ▶ MyQsx.net launched in 2009
- ▶ Why not station control using a browser
- ▶ ... from software running remotely on a server?
- ▶ Raspberry Pi!





RASPBERRY PI

- ▶ Complete Linux Computer
- ▶ 3.5" x 2.25"
- ▶ Extensive I/O
- ▶ Many Ham applications
- ▶ Inexpensive





GOALS

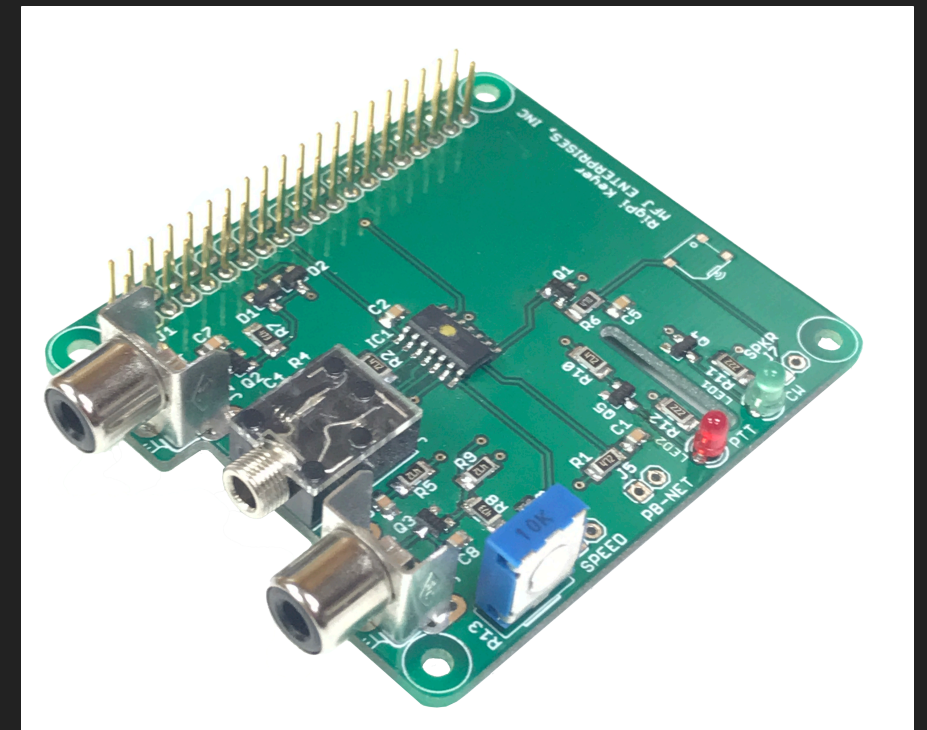
- ▶ Rig and Rotor Control
- ▶ Logging
- ▶ Callbook Lookup
- ▶ DX Spot Management
- ▶ Morse Code Keyer
- ▶ Audio through VoIP
- ▶ Multi-User
- ▶ Open Source





RIGPI KEYSER

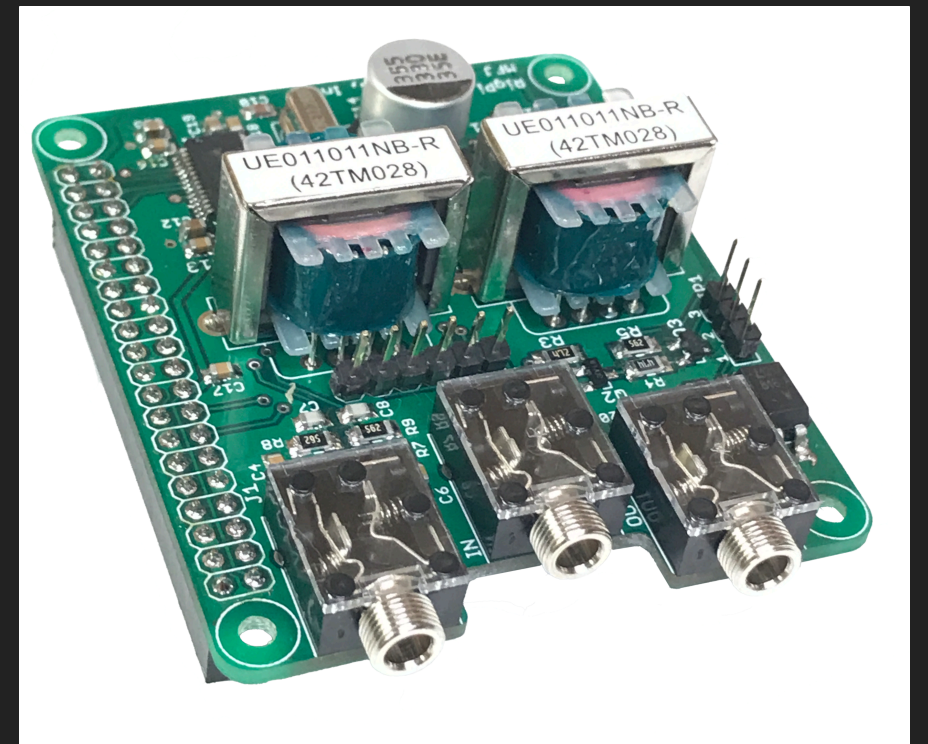
- ▶ Add-on board for RigPi Station Server
- ▶ Uses popular K1EL WinKeyer chip
- ▶ Included with RSS from MFJ





RIGPI AUDIO

- ▶ Add-on board for RigPi Station Server
- ▶ Appears as standard audio device
- ▶ Compatible with popular VoIP programs and digital modes
- ▶ Transformer isolation
- ▶ I/Q Input
- ▶ PTT options
- ▶ Included with RSS from MFJ





RIGPI REMOTE

- ▶ Control your station from anywhere
- ▶ Compatible with any browser
- ▶ Compatible with CommCat (Windows) and CommCat Mobile (free iOS app, on the Apple App Store)
- ▶ Battery powered field operation
- ▶ No Internet required





RIGPI NETWORK

- ▶ Multiple remote users
- ▶ Mumble VoIP and texting
- ▶ Connect to repeater
- ▶ Link to other RigPi nodes
- ▶ Wide area RigPi Network (WARP)
- ▶ WinLink2000





APPLICATIONS

- ▶ Local station control with logging and call lookup
- ▶ Remote or Mobile radio control
- ▶ Field Day
- ▶ Go Box
- ▶ DXpeditions
- ▶ Emergency communications





EMERGENCY COMMUNICATIONS

- ▶ Communicate when there is no power, Internet or Cell
- ▶ “Last mile” message delivery
- ▶ Texting and 2-way audio between users
- ▶ Network 5-10 users located in a 1-mile radius
- ▶ Gateway to outside services using radio





RIGPI STATION SERVER

AS THE STORY UNFOLDS

<https://www.RigPi.com>

