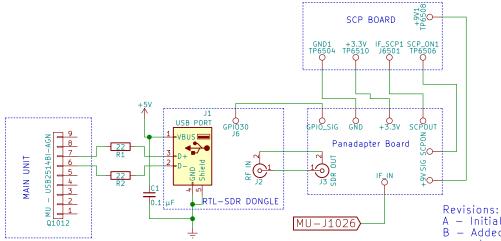
EMBEDDED RTL-SDR PANADAPTER IN FT-991A



NOTES

- USB Hub Q1012 (USB2512BI) must be replaced with USB2514BI
 Use thermal pad to dissipate RTL-SDR heat
- Be careful on component positioning to avoid shorts

A - Initial Release

B — Added a AND port to inhibit signal to RTL when either SCPON or GPIO are down

C - Removed a utterly unnecessary and

badly-designed transistor

rD----Unified-Sig-Controt---in-Panadapter-(PAT) reusing OE2DOR board design

E — Changed switch to RF switch and voltages to 3.3V

F - New board layout, added 1nF caps to RF lines in switch

G - Removed a forgotten DC blocking capacitor Added a choke in DC in lines.

H - Better signal routing on the board Unified silk markings and footprints Flipped SCP/JF ports

Embedded RTL-SDR Panadapter in FT-991A

This project takes advantage of internal FT-991A USB hub to export seamlessly a inside—the—radio RTL—SDR dongle, exporting the IF data from the SCH board, using the PAT-70 board. No chassis drilling or external wires.

PY2RAF

Sheet: /

File: panadapter.sch

Title: FT-991A EMBEDDED RTL-SDR

Size: A4 Date: 2019-03-27 KiCad E.D.A. kicad 4.0.6 ld: 1/1