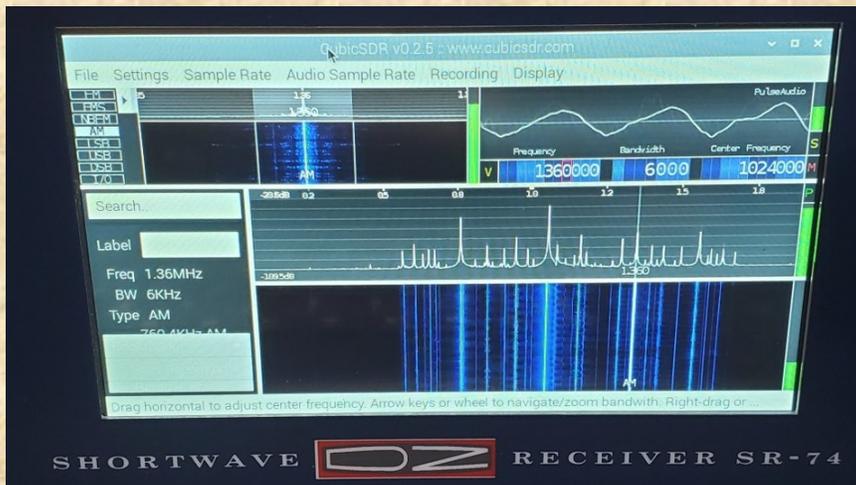


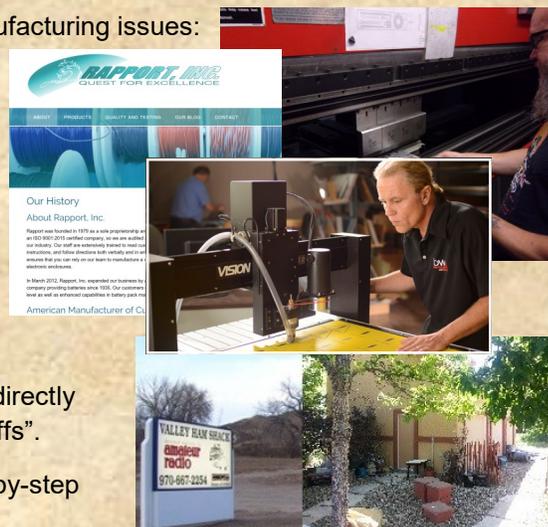
Shortwave radio has once again become an important part of the global community. When governments restrict the ability to get accurate and timely news and information, shortwave radio often fills the gap. Listen to international broadcast stations, AM/FM broadcast bands, ship-to-shore marine radio, WWV time signals, and Amateur and Citizen's Band transmissions on AM, FM, SSB and CW. Practice your Morse Code skills with the built-in code practice oscillator. Use included Saguario software to emulate old-style slide-rule dials to tune 200kHz to 108MHz, or use included CubicSDR (right) to receive over the full 2GHz frequency range supported by the RSP1A SDR.



A closer look at the touch/click buttons at the bottom of the Saguario software — Mute/Rcv, AGC On/Off (use RFG pot for threshold control when AGC is on), Several levels of front-end attenuation, Page selectors, Mode (AM, FM, NBFM, USB, LSB, CW(USB), CW(LSB)), Keyer mode, Save current freq, Tuning resolution, Exit

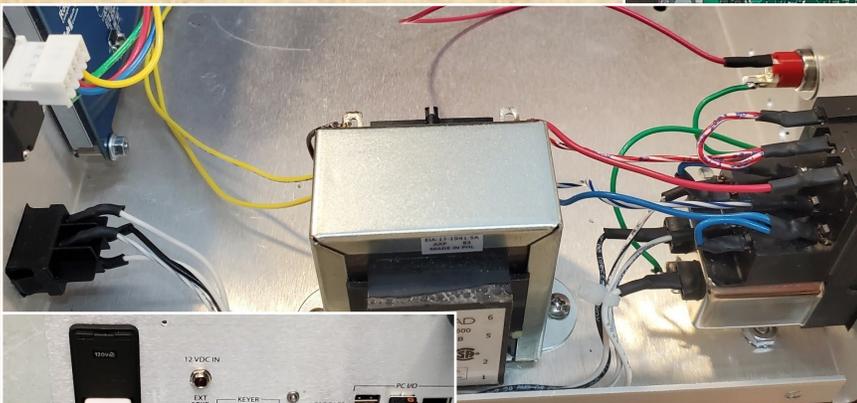
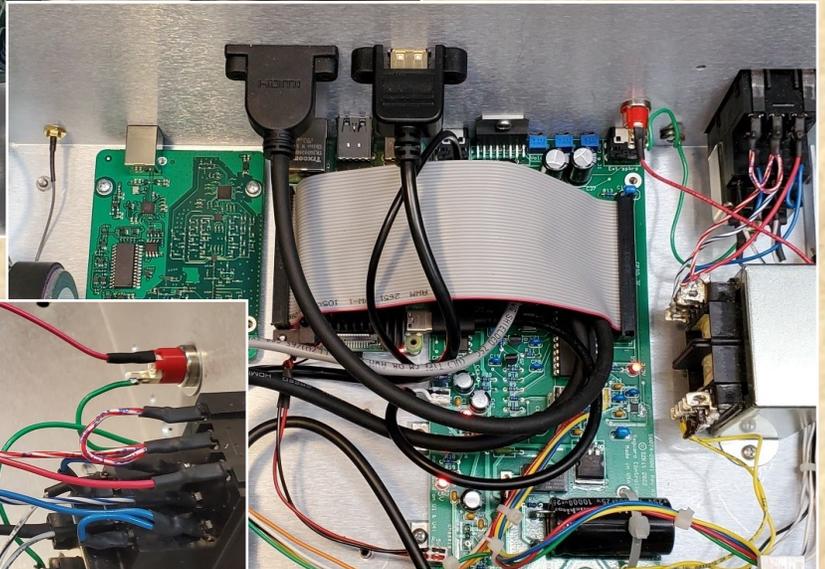
Reasons why we know you'll be successful building a DZKit Saguario

- It's made in the U.S. to assure high quality and fast response to any manufacturing issues:
 - ✓ Chassis sheet metal is manufactured by a top-notch manufacturing facility in Golden, CO.
 - ✓ Cables are made by a top-notch facility in Golden, CO
 - ✓ Front panel overlays are made in Illinois
 - ✓ DZKit-designed circuit boards are made in Oregon
 - ✓ DZKit products are designed, tested and kitted at our plant in Loveland, CO
 - ✓ We buy parts from American distributors (e.g., Mouser, Digikey) and directly from many manufacturers, guaranteeing high quality and no "knock-offs".
- We provide detailed assembly manuals with pictures, drawings and step-by-step instructions.
- No custom IC's are used. All parts are off-the-shelf.
- Captive nuts/standoffs and screws with built-in lockwashers eliminate tedious mechanical assembly.
- Small surface-mount parts are pre-loaded.
- We provide hard-to-get or uncommon tools in the kit.
- Support is just a phone call or email away, with exceptional responsiveness.



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 www.dzkit.com • 877-HAM-SHACK • sales@dzkit.com





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SPECIFICATIONS

RF Specs are identical to those of the SDRPlay RSP1A. See

<https://www.sdrplay.com/wp-content/uploads/2018/01/RSP1A-Technical-Information-R1P1.pdf>

Receiver type: Software defined radio, 14-bit ADC, controlled by Linux-based PC

Operating system: Raspberry Pi OS (Debian Linux, rev 11.0, codenamed "Bullseye")

Frequency Range of SDRPlay RSP1A: 1kHz-2GHz

Frequency coverage of Saguro software (additional bands planned for future):

200kHz-32 MHz (LF, MF and HF in 11 bands)

50-56 MHz (Amateur 6M in 2 bands)

75-108 MHz (Worldwide FM in 11 bands)

Headphone output impedance: 100 Ohms, suitable for low-Z headphones

External speaker impedance: 4 Ohms min, short-circuit protected, stereo

Connectors and Controls:

Front panel: On/off, Volume, RF Gain, Tuning, plus mouse/touch control of dial pointers

Software buttons: See page 2

Touch type: Resistive, 3H hardness

Back panel:

AC input (IEC-320)

12VDC Input (2.1mm, center positive)

Chassis Ground

External speaker (3.5mm stereo minijack)

Keyer speed, pitch, volume potentiometers

Keyer paddles (pulled up to 3.3V, 1K input, 3.5mm stereo minijack)

Touch output: USB-A

External display: HDMI

Two USB 2.0, Two USB 3.0, One 1GB Ethernet (plus internal WiFi and Bluetooth)

SDR IO: USB-B

Antenna: SMA, 50 Ohms, protected to +0dBm input level

Operating temperature: 0-40C

Operating voltage:

100-240 VAC, 50/60 Hz, 20W

10-14 VDC, 20W

Tube complement: none

IC/Board complement: Controller board (TDA7375AV quad 28W low THD audio amp, Microchip ATmega644P microprocessor, AD9833 DDS oscillator, LM358P audio mixer, CTS 16MHz clock oscillator, 2xLM350T 5V regulator, LD1085D2M33R 3.3V regulator), Raspberry Pi 4B, SDRPlay RSP1A

Dimensions: 12.5" W x 9.0" D x 5.25" H

Weight: 6.5 lbs



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