DSP Wireless, Inc. **RCB-W24C-LVDS**

WIRELESS RECORDING INTERFACE FOR INTAN RHD2132/16

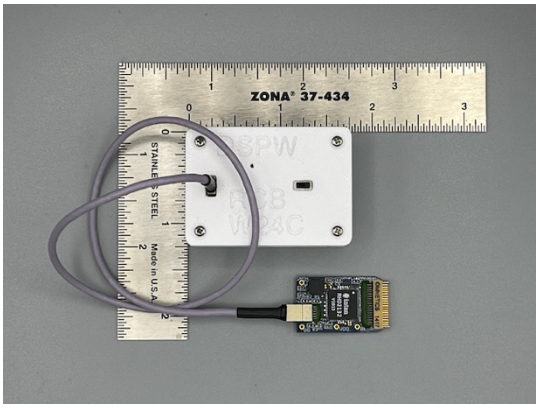
For Intan RHD2132 and RHD2216 Headstages
battery-powered 2.4GHz Wi-Fi SPI interface enabling **untethered recordings** from freely behaving subjects.

Ideal for social interaction studies, locomotion research, and any application where cables restrict natural behavior.

What's Included

- RCB-W24C-LVDS module
- Rechargeable battery (~2+ hour runtime)
- Open Ephys GUI plugin (Windows/Mac/Linux)
- Browser-based Wi-Fi configuration interface
- Open network API documentation

**Intan RHD Headstage and SPI cable not included.*



Key Specifications

Recording: 32 channels @20ksps, 16 channels @30ksps
Wireless: 2.4GHz 802.11n Wi-Fi
- Real-time UDP streaming • TCP control

Physical: 1.8" × 1.3" × 0.6"
- 21g with 300mAh battery, Jacket mountable

Interface: 12-pin Omnetics nano LVDS connector
- Differential SPI LVDS

Battery: Rechargeable internal 300mAh battery
- ~2 hours recording, many hours on standby

Antenna: Onboard PCB trace

DSPW RCB Wi-Fi OE GUI Plugin Features

- Real-time waveform display and disk recording
- Easy to use IP address configuration and control
- Live battery voltage and Wi-Fi health indicators
- HTTP Post TTL event triggers for behavioral sync
- Open source Open Ephys GUI v1.x plugin
- Open API for custom development
- MIT MWorks IO device support

Early Access Program

Limited number of units available for early adopters.

Various other wireless designs are in development. Contact DSPW to get your requirements into the mix.

Check out www.dspw.io for more info!

DSPW acknowledges support from these organizations and initiatives:

NIH The BRAIN Initiative® open ephys MWorks intan TECHNOLOGIES, LLC The BRAIN Initiative® Meeting Open Science, New Tools