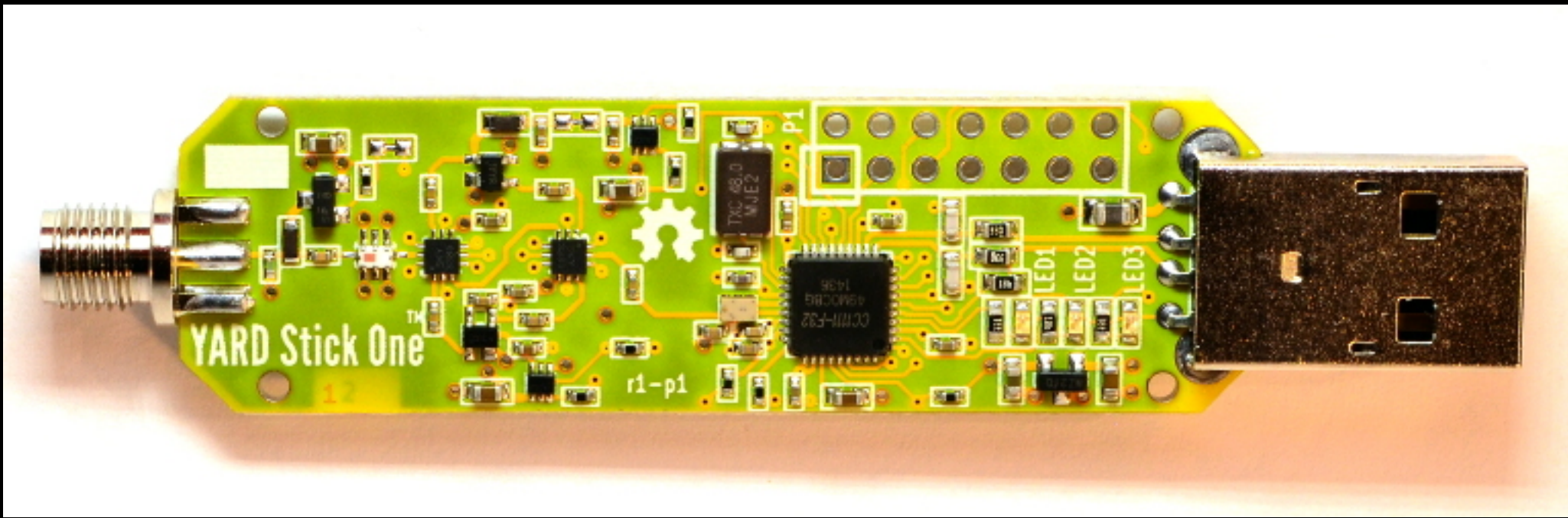


YARD Stick One

YARD Stick One is a sub-1 GHz wireless test tool controlled by your computer.



YARD Stick One is available from:

- [Adafruit](#) (US)
- [BuyaPi.ca](#) (CA)
- [Hacker Warehouse](#) (US)
- [Hak5](#) (US)
- [iSource Asia](#) (CN)
- [Maes Electronics](#) (BE)
- [ML&S Martin Lynch & Sons](#) (UK)
- [NooElec](#) (US/CA)
- [Store4Geeks](#) (SE)
- [OFC / Ouverture Fine](#) (FR)
- [Oz Hack](#) (AU)
- [Passion Radio Shop](#) (FR/UK)
- [Rysc Corp.](#) (US)
- [Seeed Studio](#) (CN)
- [VCTEC](#) (KR)
- [Wall of Sheep](#) (US)

YARD Stick One (Yet Another Radio Dongle) can transmit or receive digital wireless signals at frequencies below 1 GHz. It uses the same radio circuit as the popular [IM-Me](#). The radio functions that are possible by customizing IM-Me firmware are now at your fingertips when you attach YARD Stick One to a computer via USB.

Capabilities:

- half-duplex transmit and receive
- official operating frequencies: 300-348 MHz, 391-464 MHz, and 782-928 MHz
- unofficial operating frequencies: 281-361 MHz, 378-481 MHz, and 749-962 MHz
- modulations: ASK, OOK, GFSK, 2-FSK, 4-FSK, MSK
- data rates up to 500 kbps
- Full-Speed USB 2.0

(Official operating frequencies are guaranteed to work. Unofficial operating frequencies work in our experience.)

YARD Stick One comes with [RfCat](#) firmware installed, courtesy of [atlas](#). RfCat allows you to control the wireless transceiver from an interactive Python shell or your own program running on your computer. YARD Stick One also has [CC Bootloader](#) installed, so you can upgrade RfCat or install your own firmware without any additional programming hardware. An antenna is not included. [ANT500](#) is recommended as a starter antenna for YARD Stick One.

Originally based on the [ToorCon 14 Badge](#) design, YARD Stick One has several featured not previously seen in CC1111 platforms:

- SMA connector for external antennas such as [ANT500](#)
- receive amplifier for improved sensitivity
- transmit amplifier for higher output power
- strong RF performance across the entire operating frequency range
- low pass filter for elimination of harmonics when operating in the 800 and 900 MHz bands
- antenna port power control for compatibility with antenna port accessories designed for [HackRF One](#)
- [GoodFET](#)-compatible expansion and programming header
- [GIMME](#)-compatible programming test points

technical information

Documentation is in the [YARD Stick wiki](#), or the [rfcat git repository](#).

Hardware design files are available in the [git repository](#).

getting help

Before asking for help with YARD Stick One, check to see if your question is listed in the [FAQ](#) or has already been answered in the [mailing list archives](#).

For assistance with YARD Stick hardware, please look at the [issues on the GitHub project](#). Software issues should be logged on the [rfcat GitHub issue tracker](#). This is the preferred place to ask questions so that others may locate the answer to your question in the future.

If you prefer email then you may use the [yardstick mailing list](#) instead. You can view the [list archives](#) for past discussions.

A group of users spend time in the [#rfcat IRC channel on freenode](#). The IRC channel is a great place for us all to learn together, but it is not a good place to request support.