

Hey hacker! Thank you for being one of the few lucky purchasers of the DC614 Badge for DEF CON 27! We hope that you and the rest of our hacker family enjoy our crazy, overly ambitious, hand-soldered foray into #badgelife. Love it? Hate it? Tell us at <https://reddit.com/r/dc614> or <https://twitter.com/dcg614>!

Here's a few things you should know:

- Pay close attention when you first turn your badge on! Some things only happen once.
- This badge is powered by an Orange Pi Zero running full Armbian Bionic! That means we have features comin' out the butt. That also means that 9v batteries don't give you more than a few hours of life. Sorry. (Maybe you can hack a different power source in?)
- There are secret and additional functions for you to discover! Sure, you *could* just pull the included SD card and cheat. But are you a muggle or a hacker? **Don't Fuck It Up!** Follow the "boot2root" challenge and **earn your shell!**
- You might notice some interesting WiFi networks when your badge is powered on. The Ralink RT5370 (the antenna on the right as you're looking at the back) is responsible for that. (Rumor has it that additional WiFi modes are just one of the hidden features to find once you hack your way inside.)
- The badge's other external antenna (on the left as you're looking at the back) is connected to the nRF24LU1p, flashed with some *alternative* firmware, giving it the capability to attack vulnerable wireless keyboards. Once you earn a shell, you can use *jackit* (already installed) to take full advantage of this little baddie. (Remember: You are responsible for your own actions. Do not break laws. Do not interfere with any devices that you do not have permission to test.)
- Don't be alarmed if your badge starts doing things on its own when around another DC614 badge. Some badges have the ability to influence other badges' behaviors!
- Got a few minutes to kill and feeling lucky? Join your badge's dynamic *DC614Casino* WiFi network and visit <http://192.168.5.1>!

Troubleshooting:

- It can take a minute or two to boot. Please be patient!
- The badge is sensitive to power fluctuations. Hot-swapping batteries may cause a crash.
- In the event of a crash, or if the badge will not boot, pull both batteries, wait a few seconds, and try again. If the badge still will not boot, try a fresh pair of batteries.
- Your speaker may make noise when not in use. This is normal.
- Jackit is a massive resource hog. Consider using armbian-config to increase your CPU speed before use.

Badge Components:

- 1x PCB + 1x Orange Pi Zero (512 MB) + 1x 16 GB MicroSDXC card (Armbian Bionic base)
- 2x female USB-A ports
- 1x Ralink RT5370 WiFi adapter + 1 antenna
- 1x nRF24LU1p (CrazyRadio) + 1 antenna
- 1x LM2596 DC stepdown voltage regulator
- 1x LM386 audio amplifier + 1x 28mm 8 ohm 1 watt speaker (exact model varies)

Have fun and happy hacking! <3 The DC614 Badge team — hashgrind, Quix, LnxProf, Lucifer, Mars, PezGrande, Phorkus, PopePete, Princess, and 0x573V3

DID YOU READ THIS? GIVE THE DC614 MEMBER WHO HANDED YOU THIS A THUMB'S UP!