

Forum:[Hack Forums](#)

Thread: [POOM Open-Source ESP32-C5 Tool for Wireless Forensics & Ethical Pentesting](#)

the beas55 - January 20, 2026, 11:38 am

Hi everyone,

I'd like to introduce POOM, an open-source, pocket-sized hardware tool we've been building for wireless forensics, security research, and ethical pentesting.

POOM was designed specifically for defensive use cases: understanding RF environments, auditing IoT deployments, and learning how modern wireless systems

Why POOM?

Most portable tools still focus heavily on 2.4 GHz. POOM is built around the ESP32-C5, which enables native 5 GHz Wi-Fi alongside other radios, making it far more relevant for modern networks.

Core capabilities (for research & forensics)

Wi-Fi 2.4 GHz + 5 GHz

Packet capture (PCAP)

AP analysis & environment mapping

Controlled Evil Twin / captive portal simulations (lab use)

BLE + Zigbee / Thread (802.15.4)

Multi-protocol observation

IoT ecosystem visibility

NFC / HF-RFID (13.56 MHz)

Card reading, emulation, and analysis

Intended for access-control research & auditing

Forensics-friendly

PCAP export

Offline analysis with Wireshark

No cloud dependency

Maker / Research extensions

Qwiic (I²C) connector for GPS, sensors, time-correlation, etc.

Fully scriptable and extensible firmware

Philosophy

Open-source hardware & firmware

Built for learning, auditing, and controlled environments

POOM is currently live on Kickstarter and already funded.

Thanks — and looking forward to constructive feedback from the community.

LiNixx - January 20, 2026, 1:14 pm

Very interesting project. Had a look at the [Poom Kickstarter](#) kickstarter page and it seems to be a successful campaign !

wish you and your team good luck !

Do you have a link to your code repository we can check out ?