

Hello, defcon attendees. dmitrygr@ here. I am most answering questions about the firmware here: <https://discord.gg/ZHCf3UbK>

Badge firmware sources: http://dmitry.gr/images/defcon_code_1.5.0.tar.bz2
UPDATE v 1.5.0: http://dmitry.gr/images/defcon_update_1.5.0.tar.bz2

Here you can find rePalm firmware downloads for DEFCON 32 badge.

The badge this year was the FIRST device **DESIGNED** for PalmOS 5.x since the late 2000s

Stock badge can only use a minimal build as RP2350's 512KB of RAM is rather tight for PalmOS 5.2 with a 320x240 display. To save RAM, the display is limited to 8bpp. [ROM IMAGE LINK](#)

Badges with a 8MByte APMemory PSRAM installed (there is a footprint on the board, go wild) gets a fuller build with support for games, video playback, and 16bpp screen. [ROM IMAGE LINK](#)

More info about rePalm: [HERE](#)

Install instructions: download the image that matches your device (with extra RAM soldered in or not), rename to FIRMWARE.bin, copy to SD card, use the "Firmware Update" menu item to update to it.

To restore back to stock, you'll use the normal RaspberryPi UF2 mode (reset badge while connected to USB and "BOOT" button pressed). Copy the UF2 file to it from a computer and "eject". I was too lazy to implement a firmware update inside PalmOS in time to give you this cool preview, so sue me! [Stock ROM UF2 file here](#).