

Brought to you by:

Monero Village
Rogues Village
Biohacking Village
IoT Village
Red Team Village
Hak5, Beth, Andrés

We appreciate Rapid7 for supporting the free badge for kids program.

-. .THX FOR HACKING. .-

INTERVILLAGE BADGE for DEFCON: SAFE MODE

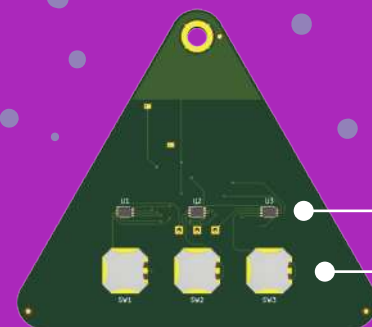


Bill of materials

M24SR64-YMC6T/2
ST25DV04K-IER8C3
Keyelco-5155TR
U.FL-R-SMT-1
Faux leatherette
PET plastic overlay
Liquid photopolymer
Pinch of stardust



PCB layout



3 X NFC EEPROM

3 X dome switch

13.56Mhz antenna

Solderfield breadboard

3 X I2C serial circuit

Energy harvesting

Tip: To use your badge with IPv5, point a AAA record to G00D-F00D



Quick start

1. Enable NFC on phone



2. Log in to smartphone

3. Leather side to phone back



4. Press a badge button



* Optional: Install NFCTools

Participate in the DC28 Village Network Stories

<https://bob.monerodevices.com/>
<https://www.foursuits.co/game/>

Applications

Onboard and personalize
Test and explore radio
Navigate villages (maybe)
Play the Rogues game

Alice opened the door and found that it led into a small passage, not much larger than a rat hole: she knelt down and looked along the passage into the loveliest garden you ever saw. How she longed to get out of that dark hall, and wander about among those beds of bright flowers and those cool fountains, but she could not even get her head through the doorway; "and even if my head would go through," thought poor Alice,

"it would be of very little use without my shoulders. Oh, how I wish I could shut up like a telescope! I think I could, if I only knew how to begin." For, you see, so many out of the way things had happened lately, that Alice had begun to think that very few things indeed were really impossible.

- Lewis Carroll,
Alice's Adventures in Wonderland

CODE

```
if ("NDEFReader" in window) {
  const reader = new NDEFReader();
  await reader.scan();
  reader.onreading = ({ message }) => {
    console.log(NFC message: ${message});
  };
}
```



homepage



webshop



helpdesk



DIY Hacks



Easy: Route through the hidden hole for a lanyard

Easy: Polish, buff, and improve your plastic frame

Medium: Print and replace the plastic frame using DLP

Difficult: Remove the leather to access I2C and TPs

Insane: Try to defeat the passive data theft defense

Radio-use: Copy a backup of your other tags in cards

Radio-pro: Manipulate or reformat the NDEF tags

Q: What is the Intervillage Badge?

A: It is a electronic device, custom made for DC villages.

Q: What is the 'Alice' text?

A: It is part of a game thanks to the Rogue Village.

Q: Where can I onboard my badge for village use?

A: At <https://bob.monerodevices.com/>

Q: Where are the I2C serial, and energy harvest circuits?

A: That's for you to find out. Put some LEDs in there.

Q: Can I change the serial numbers?

A: Probably not.

FAQ

..DISCLAIMER..

The Intervillage Badge Team ("IBT") is a loose collective of individuals that aim to provide hardware to Defcon villages. The IBT has no centralized authority as there is no entity, or institution that controls, dictates, regulates, or makes decisions for, or on behalf of, any member of IBT. It is not the intent of IBT to form any partnership, joint venture, agency, employer-employee or fiduciary relationship between any of the individuals involved or with any other persons in any circumstances.

IBT delivers the Intervillage Badge ("Badge") that is constructed of electronic components to you and anyone using the Badge ("Users") on condition that Users voluntarily and knowingly assume the risks associated with handling such components, which could potentially lead to shock, fire, serious injury, and/or damage to property. Users undertake to take all necessary measures to minimize these risks. The Badge is an unfinished product to be used for experimentation and does not have any specific intended use case.

The Badge is therefore provided "AS IS" and any express or implied warranties, including, but not limited to, implied warranties of merchantability, of satisfactory quality, non-infringement of third party rights, and fitness for any particular purpose or use are disclaimed. The IBT makes no representation that the Badge does or will not infringe any patent, copyright, trade secret or other proprietary right or any other representations or warranties whatsoever.

The IBT shall have no liability, neither jointly nor severally, for direct, indirect, special, incidental, consequential, exemplary, punitive or other damages of any character including, without limitation, procurement of substitute goods or services, loss of use, data or profits, or business interruption, however caused and on any theory of contract, warranty, tort (including negligence), product liability or otherwise, arising in any way in relation to the Badge regardless of whether or not the IBT knew or ought to have known of such risk of damage. Users shall hold IBT free and harmless from any and all liability, costs, damages, fees and expenses, including claims by third parties.

FCC Notice

This kit is designed to allow:

- (1) Product developers to evaluate electronic components, circuitry, or software associated with the kit to determine whether to incorporate such items in a finished product and
- (2) Software developers to write software applications for use with the end product. This kit is not a finished product and when assembled may not be resold or otherwise marketed unless all required FCC equipment authorizations are first obtained. Operation is subject to the condition that this product not cause harmful interference to licensed radio stations and that this product accept harmful interference. Unless the assembled kit is designed to operate under part 15, part 18 or part 95 of this chapter, the operator of the kit must operate under the authority of an FCC license holder or must secure an experimental authorization under part 5 of this chapter. For evaluation only; not FCC approved for resale.

HISTORY

Early as Defcon 28 was turning on the safe mode, several Defcon village members had the idea of a collaborative inter village project to offer visitors a virtual method of exploration in a hybrid hardware software village system.

