

Amazon Dash Button

Triangle Embedded Interest Group

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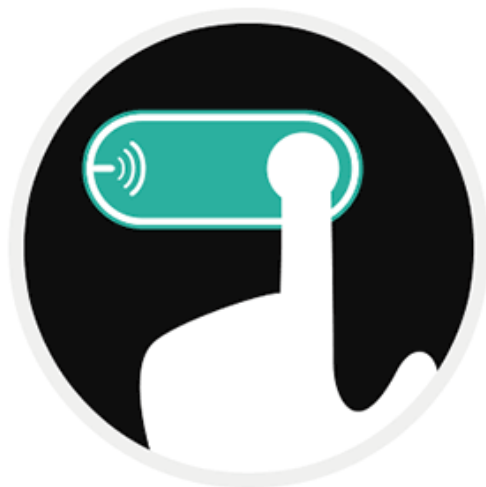
Amazon Dash Button

HOW IT WORKS



SET IT

Set-up and place
Dash Button



PRESS IT

When you're running low
on your favorite product



GET IT

Receive your product
before you run out

Amazon Dash Button

Amazon wants “get it” to mean “get their stuff.”

There is an alternative!

How It Can Work



Simple Hacks

- Set up as usual but ***omit Amazon product selection step***
- Establish MAC address (xx:xx:xx:xx:xx:xx):
 - Inspect router or
 - Use arpalert or
 - Any of a number of other tools
- Standard: detect ARP traffic for this MAC
- Easy but not guaranteed: detect ping response as button tends to reuse same IP address router associated with MAC

Detect ARP

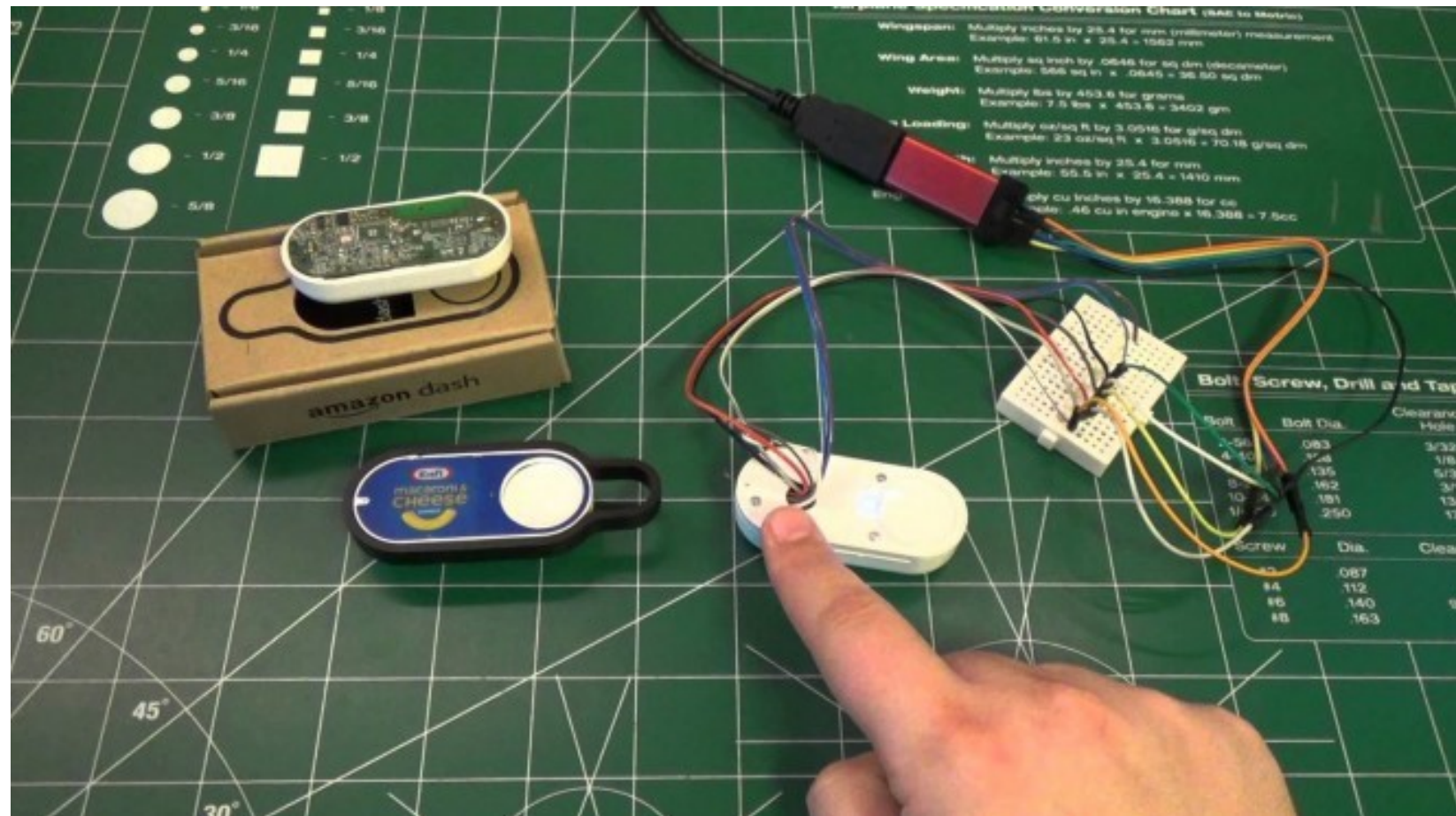
- Watch router log or
- Have MAC in arpalert 'deny' file and watch its log:
- Aug 8 13:26:17 arpalert: seq=9,
mac=f0:27:2d:d8:26:ad, ip=192.168.1.122,
type=black_listed, dev=wlp3s0, vendor="(null)"
- Or use an option to execute a program (MAC and IP are args to program):

```
sudo arpalert -e arbitrary_program
```

Detect Ping Response

```
#!/bin/sh
while [ /bin/true ] ; do
    ping -w 1 -c 1 192.168.1.122 \
        >/dev/null 2>&1
    if [ $? -eq 0 ] ; then
        echo "answer the door" | espeak --stdin
        sleep 10
    fi
done
```

Not-so-simple Hack: Firmware



How Far Can It Go?



Amazon Dash Button: Cheat Sheet

<http://tinyurl.com/dashcheat>

AKA http://triembed.org/blog/?page_id=1653

(“Information Resources”/“Amazon Dash...”)

Your project URL goes *HERE*