BADGE

Sebastius + Kartoffel

aka

Sebastian Oort + Niek Blankers

+4973

CONTENTS

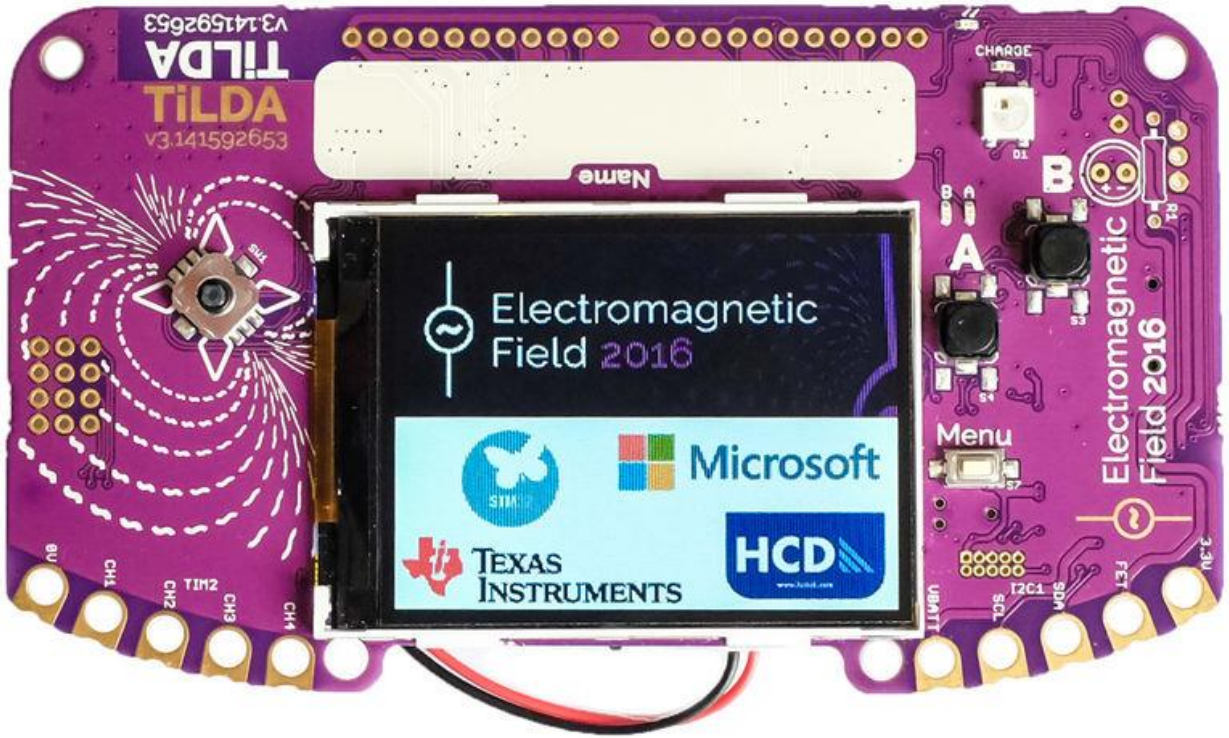
- From concept to production
- Celebrate the badge

CONCEPT

- Name badge
- Augment the event
- Ease of hackability
- Available from start of event

EMF TILDA

- WiFi
- Micropython
- App library



E-PAPER

connector
Good display co.,
The best for you
OK
名屋纯豆浆
产地：台湾
规格：340ml
零售价：7.9
4710873000200
14912884BEC4
ifLabel API-测试平台
01:30:53

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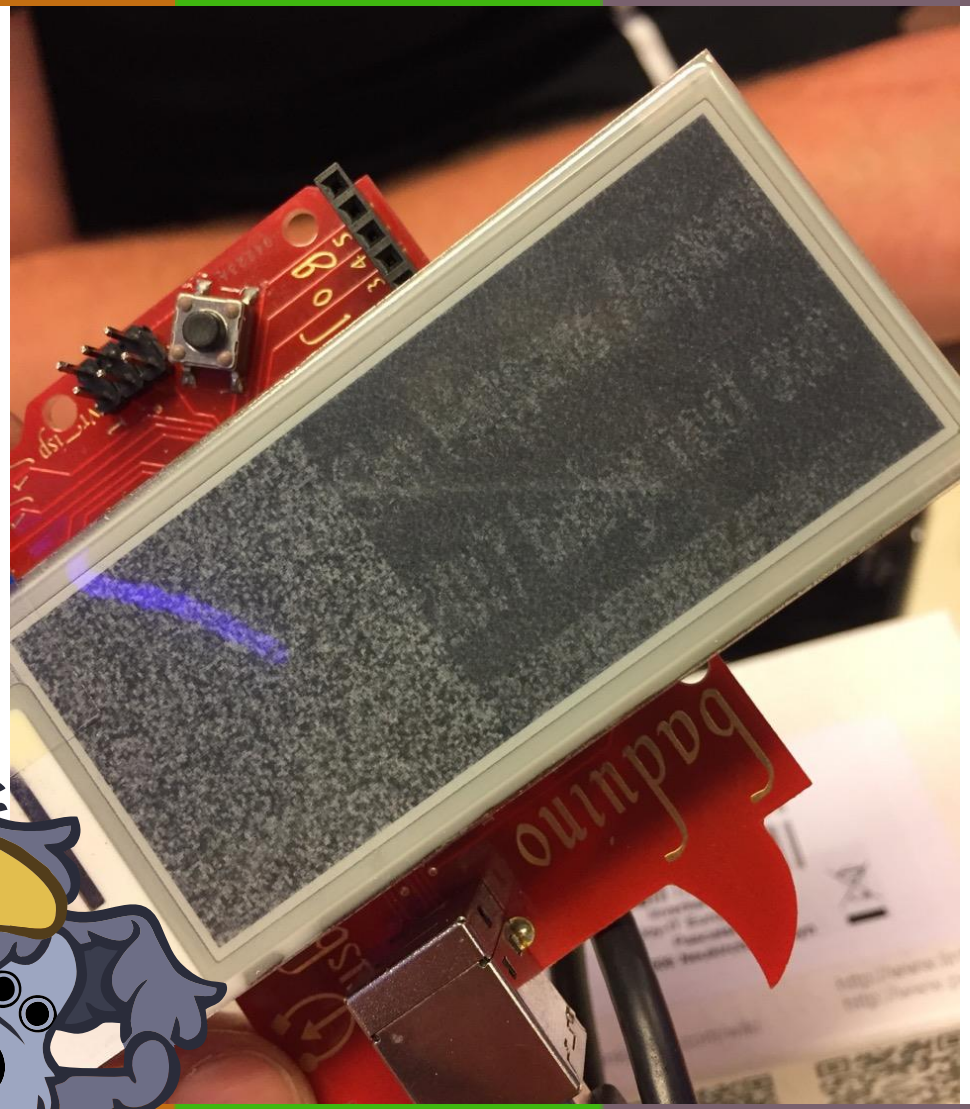
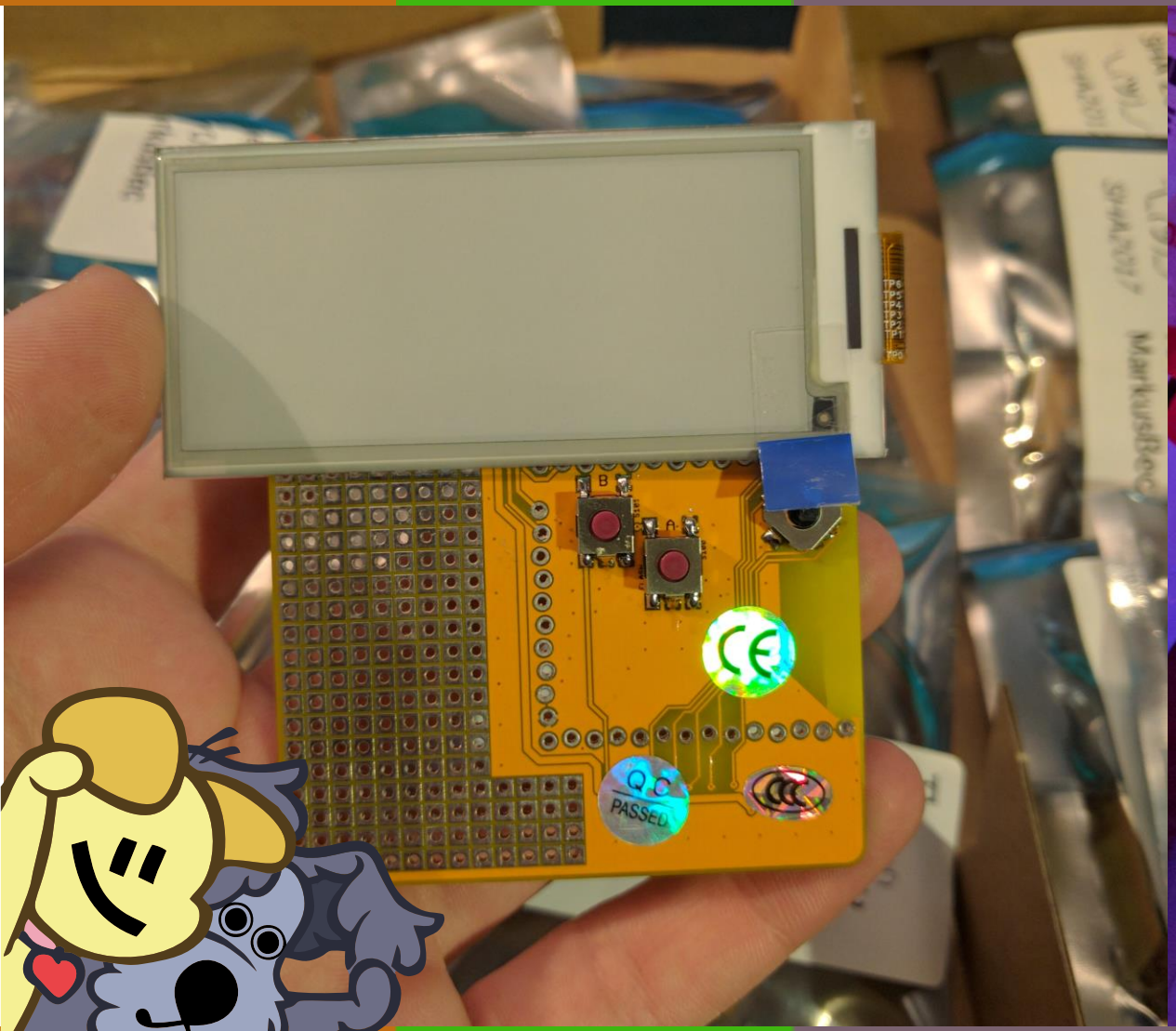
E-PAPER



FIRST PROTOTYPE



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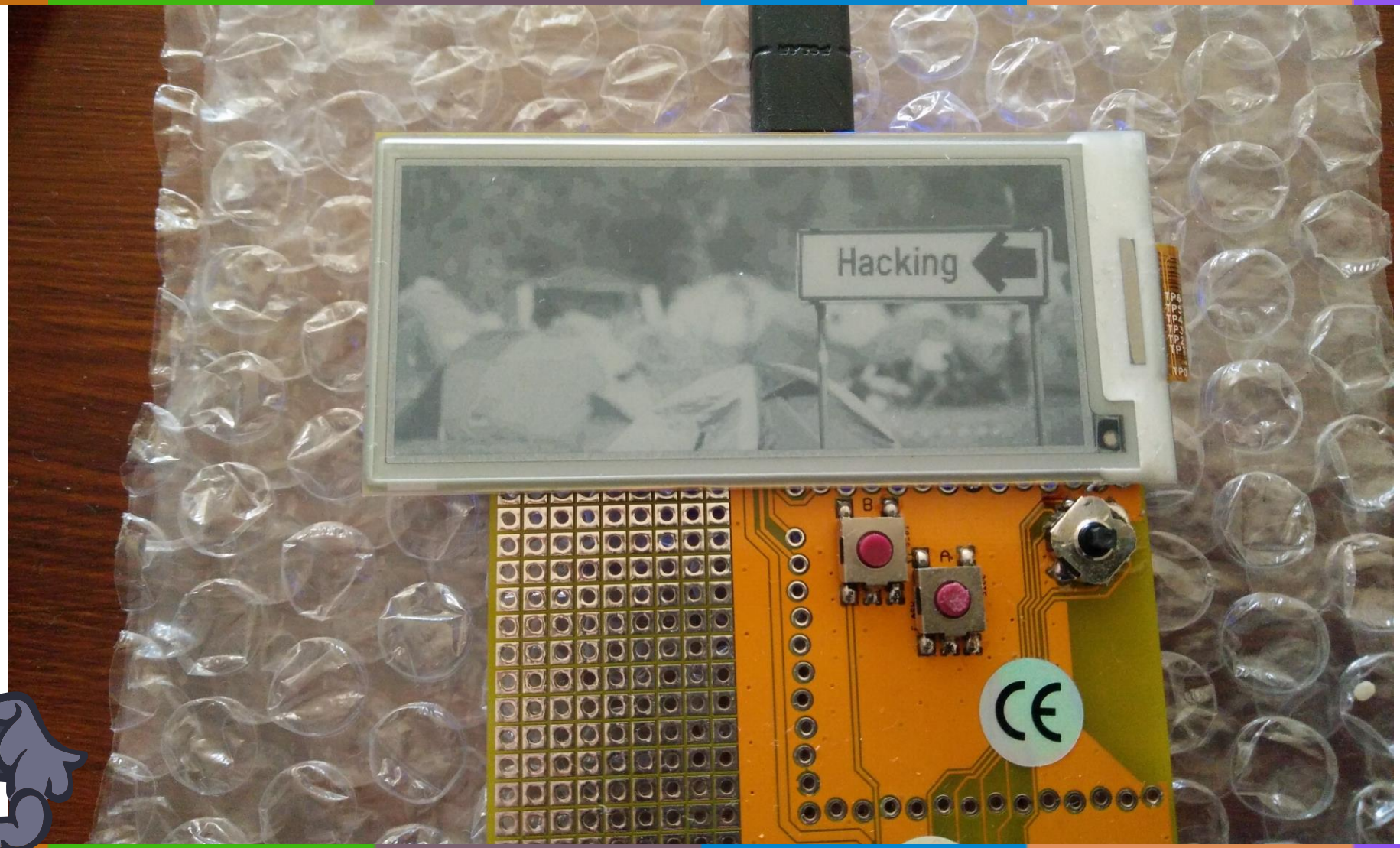
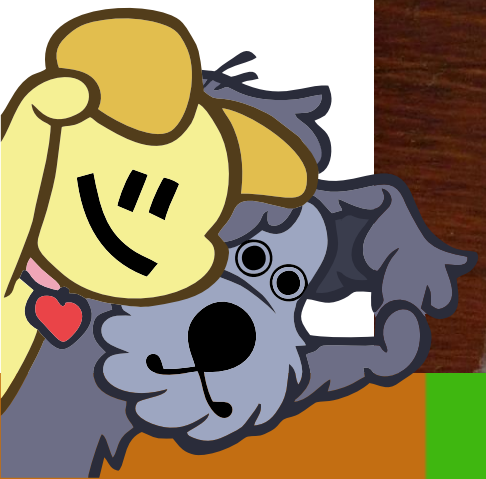
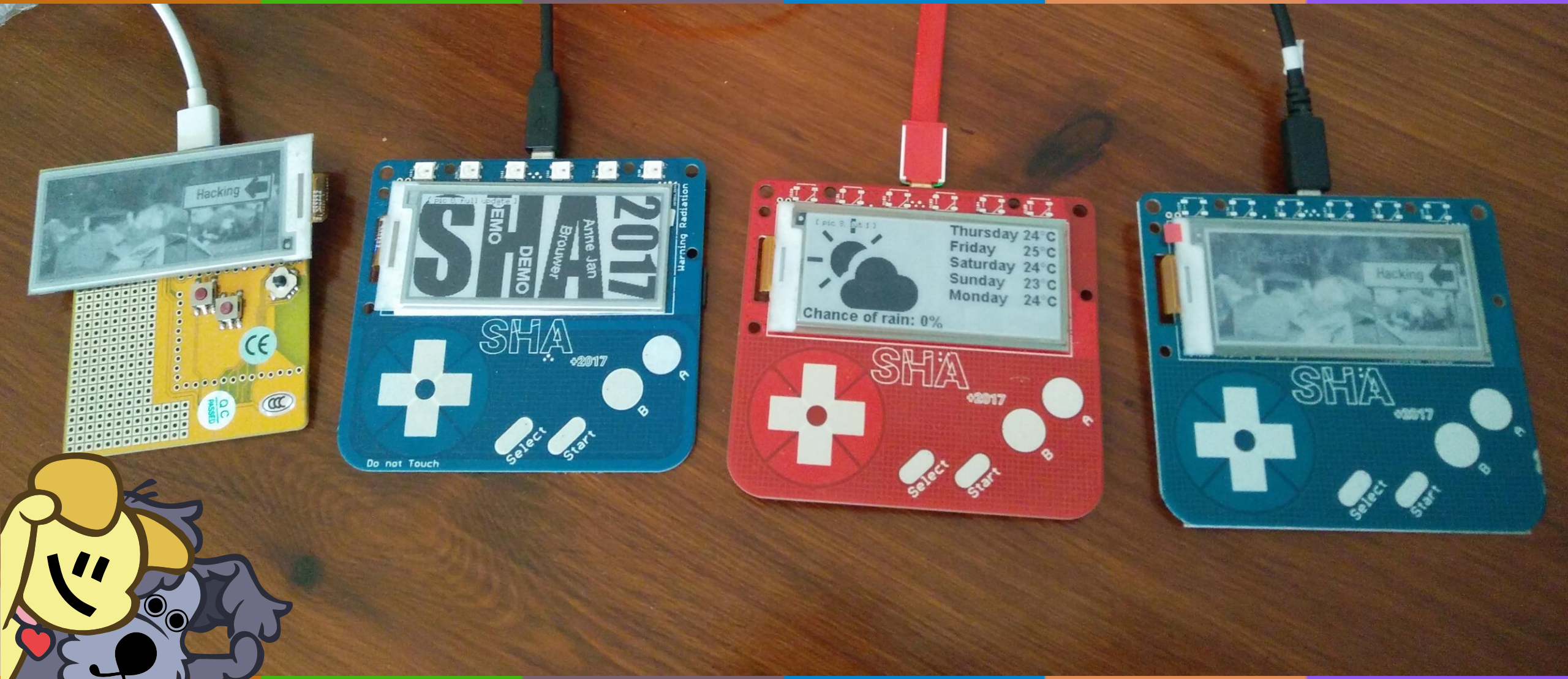
FIRST PROTOTYPE





LINEUP


Hacking
SHA
2017
Anne Jan Brouwer
DEMO
Harming Radiation
Do not Touch
Select
Start
Thursday 24°C
Friday 25°C
Saturday 24°C
Sunday 23°C
Monday 24°C
Chance of rain: 0%

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PRODUCTION!

(or so we thought)

Subject	From	Date
Re : Sponsorship SHA2017 Badge	PCBWay Online Services Team	17-04-17 03:42
Re : Re: Re : Sponsorship SHA2017 Badge	PCBWay Online Services Team	19-04-17 11:48
Re : Re: Re : Re: Re : Sponsorship SHA2017 Badge	PCBWay Online Services Team	19-04-17 12:45
Re : Re: Re : Re: Re : Re: Re : Sponsorship SHA2017 Badge	PCBWay Online Services Team	20-04-17 02:59
About panel pcb	PCBWay Online Services Team	20-04-17 07:58
Re : Re: Re : Re: Test about assemble boards	PCBWay Online Services Team	09-06-17 04:15
Re : Re: Re : Re: Re : Re: Test about assemble boards	PCBWay Online Services Team	09-06-17 08:19
Re : Re: Re : Re: Re : Re: Re : Re: Test about assemble boards	PCBWay Online Services Team	10-06-17 03:14
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Test about assemble boards	PCBWay Online Services Team	12-06-17 09:00
Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	10-07-17 08:13
Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	10-07-17 09:56
Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	10-07-17 10:33
Re : Re: Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	10-07-17 11:00
Re : Re: Re : Re: Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	10-07-17 11:26
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	11-07-17 09:50
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	11-07-17 10:08
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W38466A	PCBWay Online Services Team	11-07-17 10:16
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Soldering errors - W38466AXM9 T-M8W3846...	PCBWay Online Services Team	11-07-17 10:30
U1 soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	12-07-17 05:28
Re : Re: U1 soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	14-07-17 07:58
Very urgent about USB soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	15-07-17 04:03
Re : Re: Very urgent about USB soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	15-07-17 08:40
Re : Re: Re : Re: Very urgent about USB soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	16-07-17 14:49
Re: Re : Re: Re : Re: Very urgent about USB soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	16-07-17 18:02
Update: Very urgent about USB soldering W38466AXM9 T-M8W38466A	PCBWay Online Services Team	17-07-17 08:26
Very very urgent about smt order W38466AXM9	PCBWay Online Services Team	17-07-17 11:18
Re : Re: Very very urgent about smt order W38466AXM9	PCBWay Online Services Team	17-07-17 11:52
Re : Re: Re : Re: Very very urgent about smt order W38466AXM9	PCBWay Online Services Team	17-07-17 12:09
Re : Re: Re : Re: Very very urgent about smt order W38466AXM9	PCBWay Online Services Team	17-07-17 14:07
Re : Re: Re : Re: Re : Re: Very very urgent about smt order W38466AXM9	PCBWay Online Services Team	17-07-17 14:54
first batch of W38466AXM9	PCBWay Online Services Team	18-07-17 10:45
Re : Re: first batch of W38466AXM9	PCBWay Online Services Team	18-07-17 13:01
Second batch	PCBWay Online Services Team	19-07-17 11:07
Third batch	PCBWay Online Services Team	20-07-17 10:35
Fourth batch	PCBWay Online Services Team	21-07-17 11:17
Re : Re: Fourth batch	PCBWay Online Services Team	24-07-17 09:18
Re : Re: Re : Re: Fourth batch	PCBWay Online Services Team	24-07-17 10:09
Re : Re: Re : Re: Re : Re: Fourth batch	PCBWay Online Services Team	24-07-17 11:07
Re : Re: Re : Re: Re : Re: Re : Re: Fourth batch	PCBWay Online Services Team	25-07-17 11:52
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Fourth batch	PCBWay Online Services Team	25-07-17 15:24
Is there any update?	PCBWay Online Services Team	26-07-17 08:08
Re : Re: Is there any update?	PCBWay Online Services Team	26-07-17 10:02
Re : Re: Re : Re: Is there any update?	PCBWay Online Services Team	26-07-17 10:10

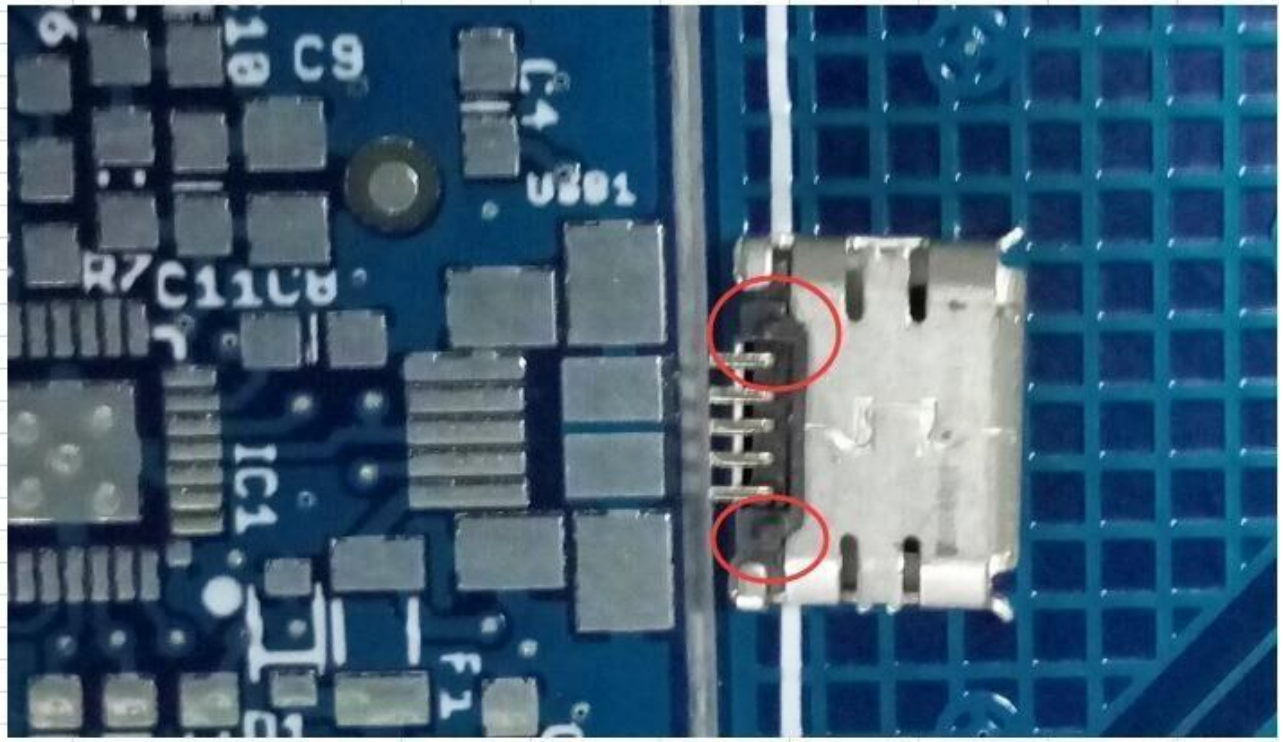
SOURCING COMPONENTS

- Displays
- Touch IC

TEST RUN

Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Update of smt order	PCBWay Online Services Team	03-07-17 09:47
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Update of smt order	PCBWay Online Services Team	03-07-17 10:22
Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Re : Re: Update of smt order	PCBWay Online Services Team	03-07-17 10:32

W38466AXM9这个USB来料有定位柱，但是板子没孔，要换USB



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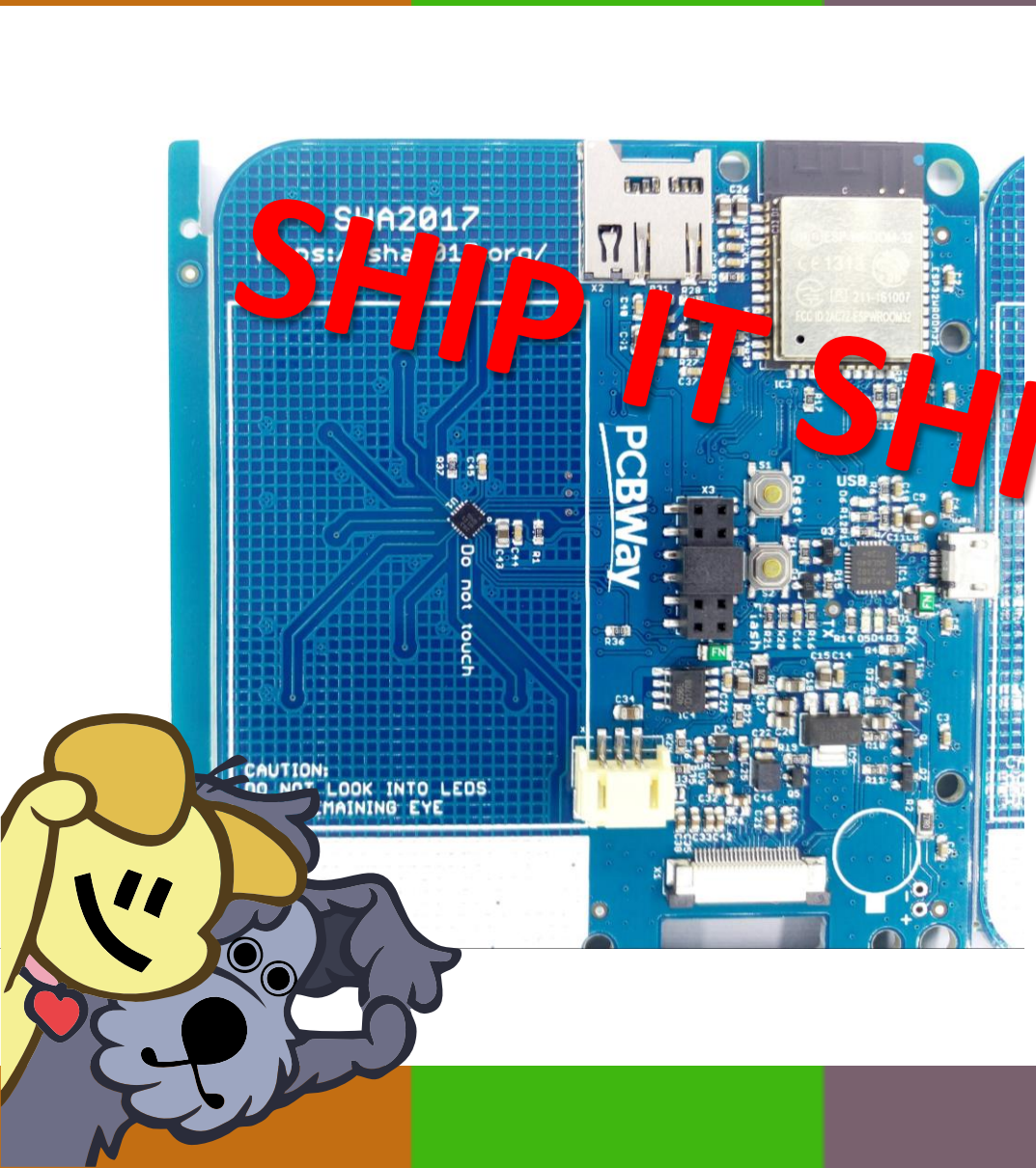
TEST RUN



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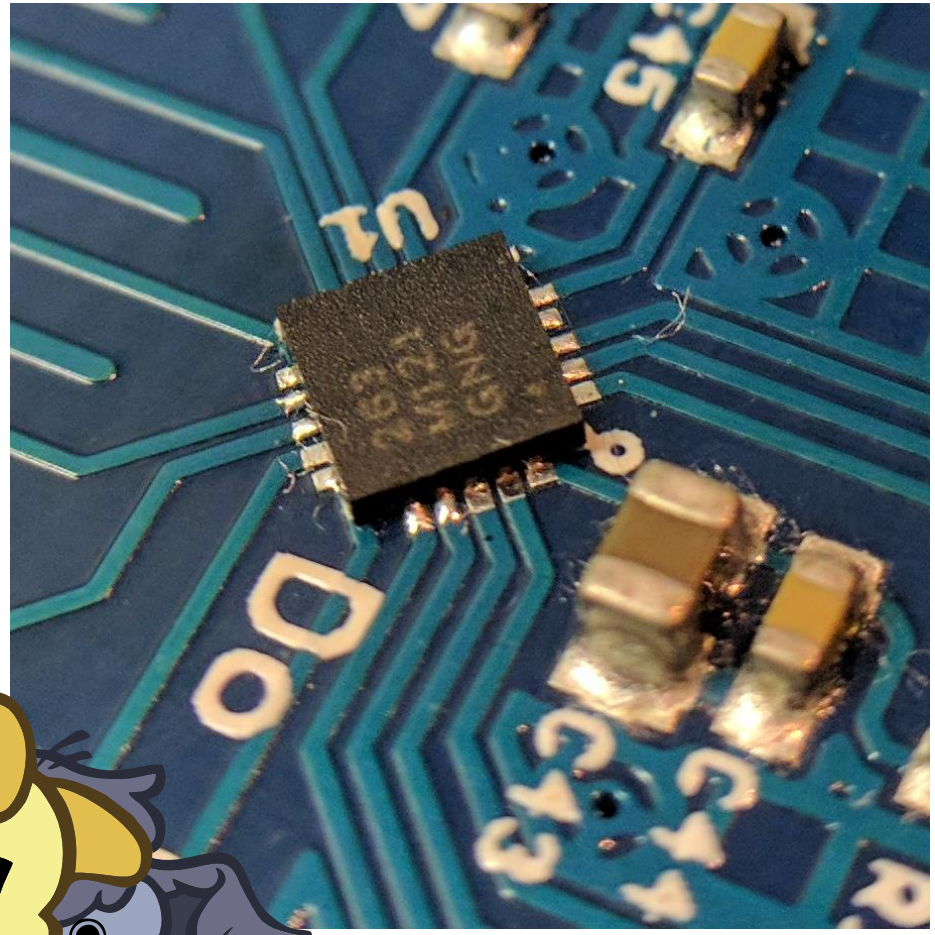
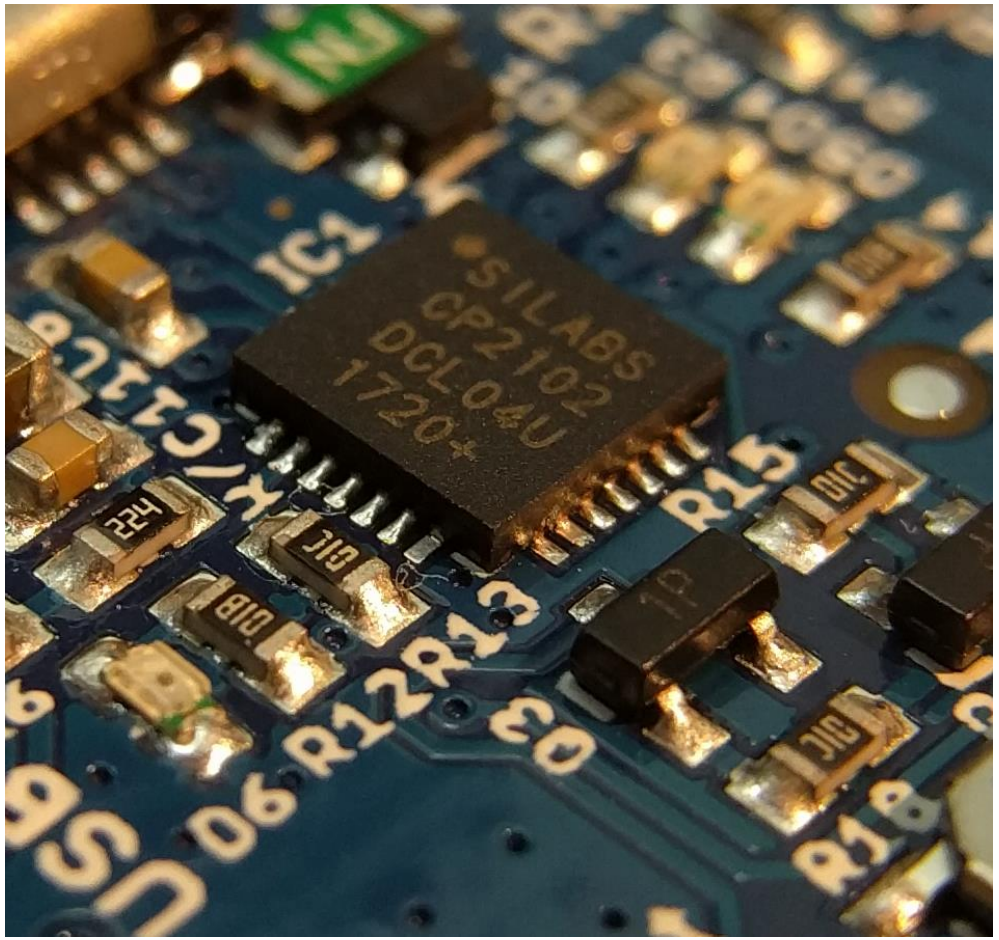
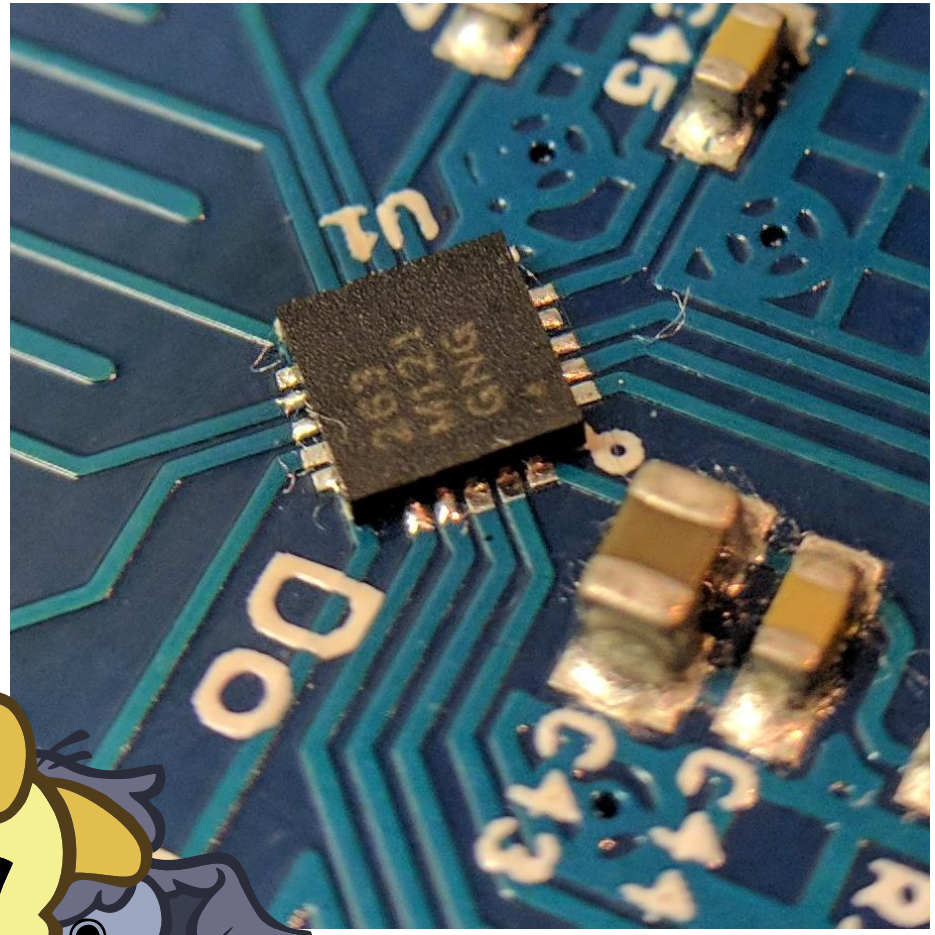
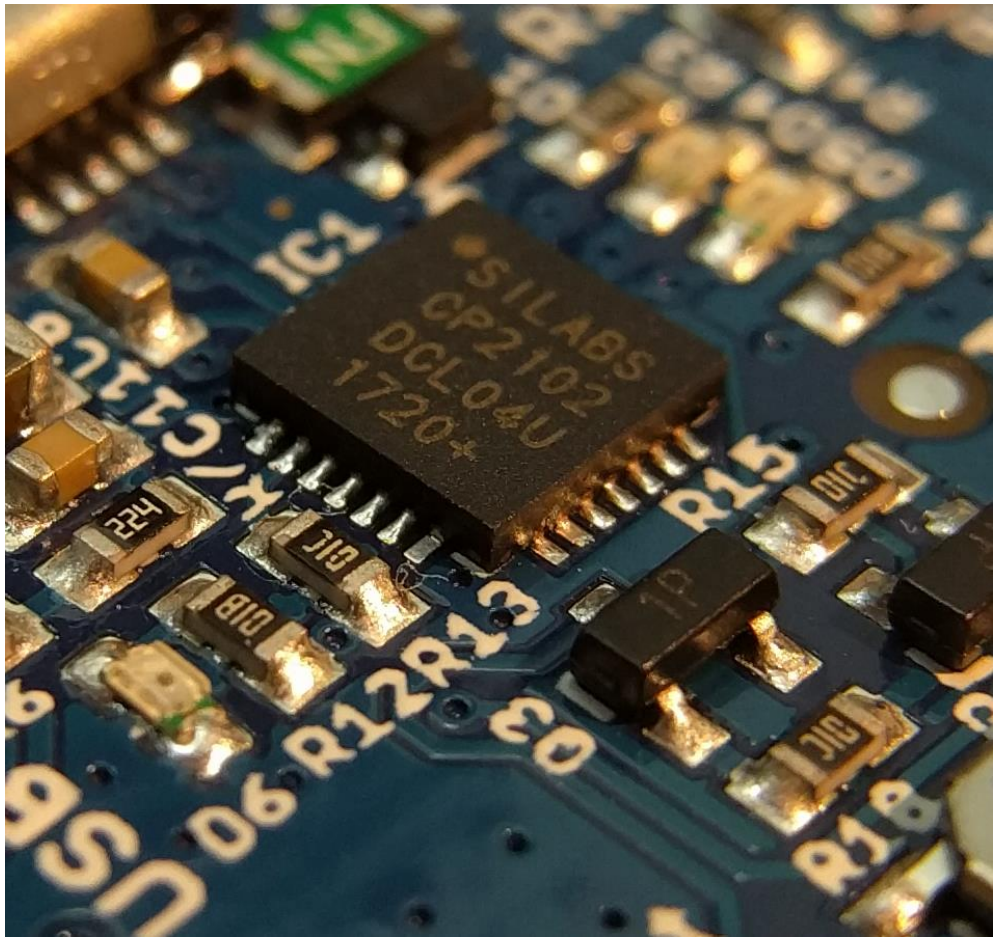
TEST RUN





FIX FIX FIX





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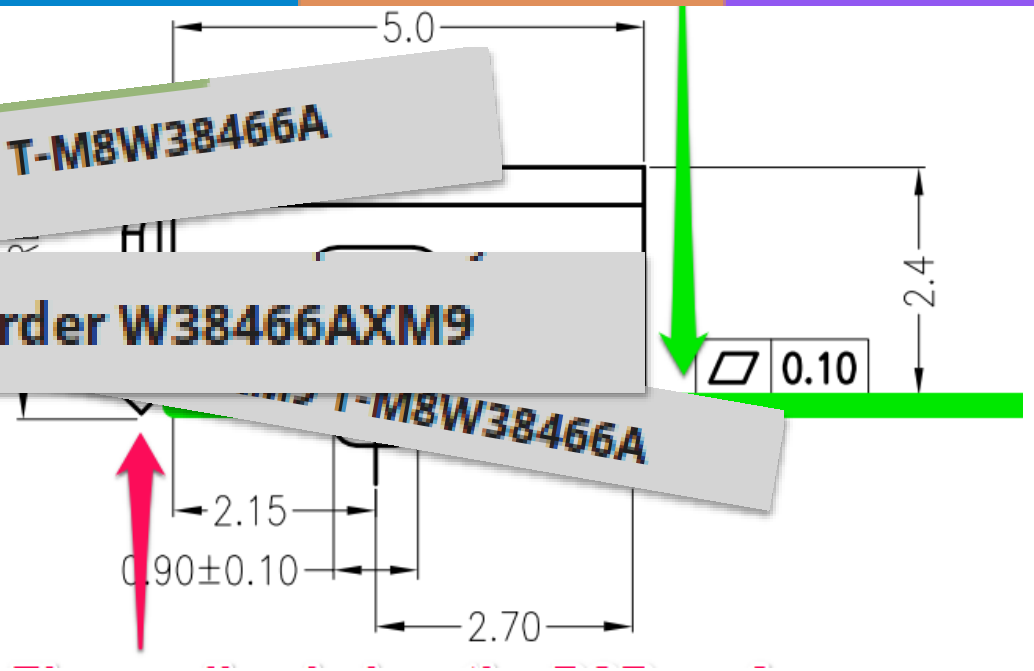
GO GO GO!!!!

Subject Update: Very urgent ... W38466AXM9 T-M8W38466A

Subject Ve...

Subject Very very urgent about smt order W38466AXM9



Source: worthingtonassembly.com

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GO GO GO!!!!

- 26 July: final badges depart PCBWay

GET A ROOM

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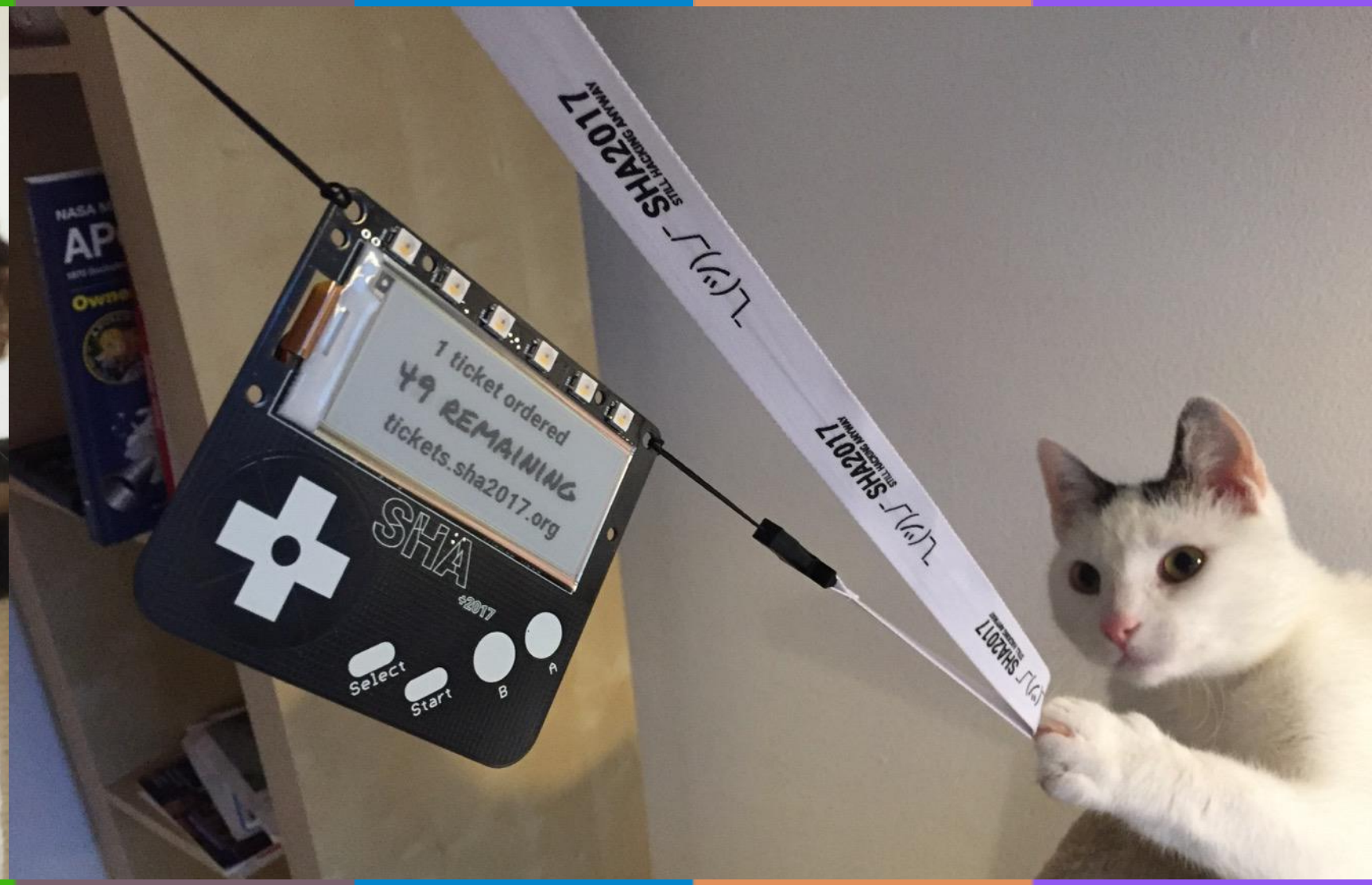
CATS SELL TICKETS



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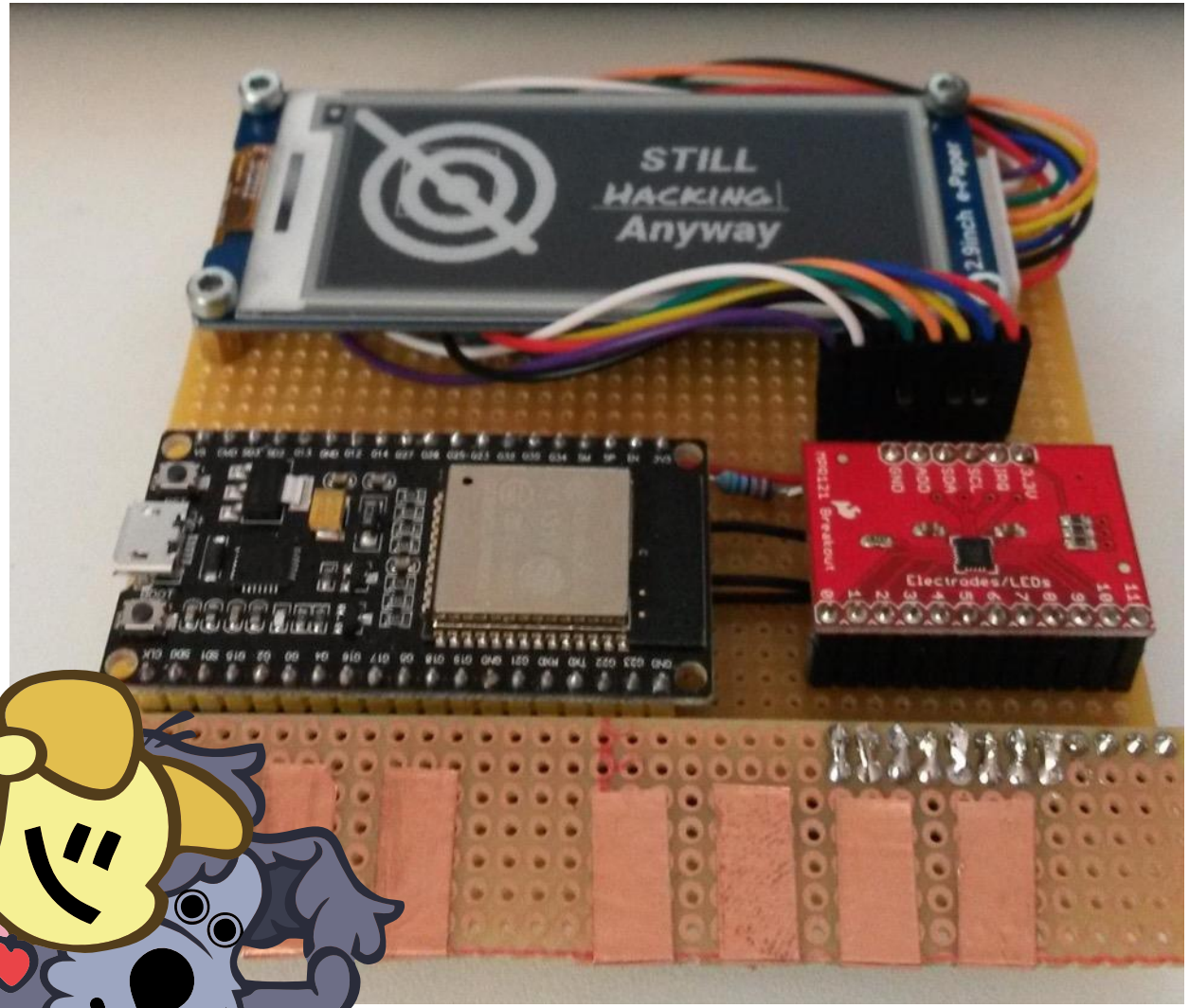
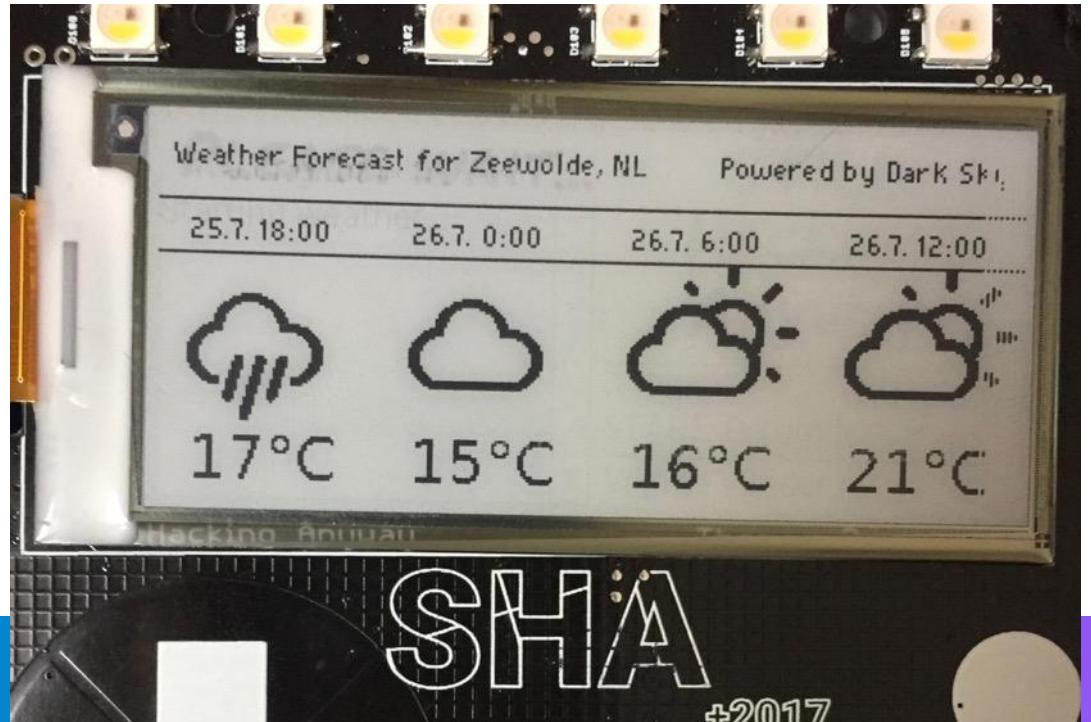
GETTING HYPED



Hatchery

Contributors: 266 Eggs: 297

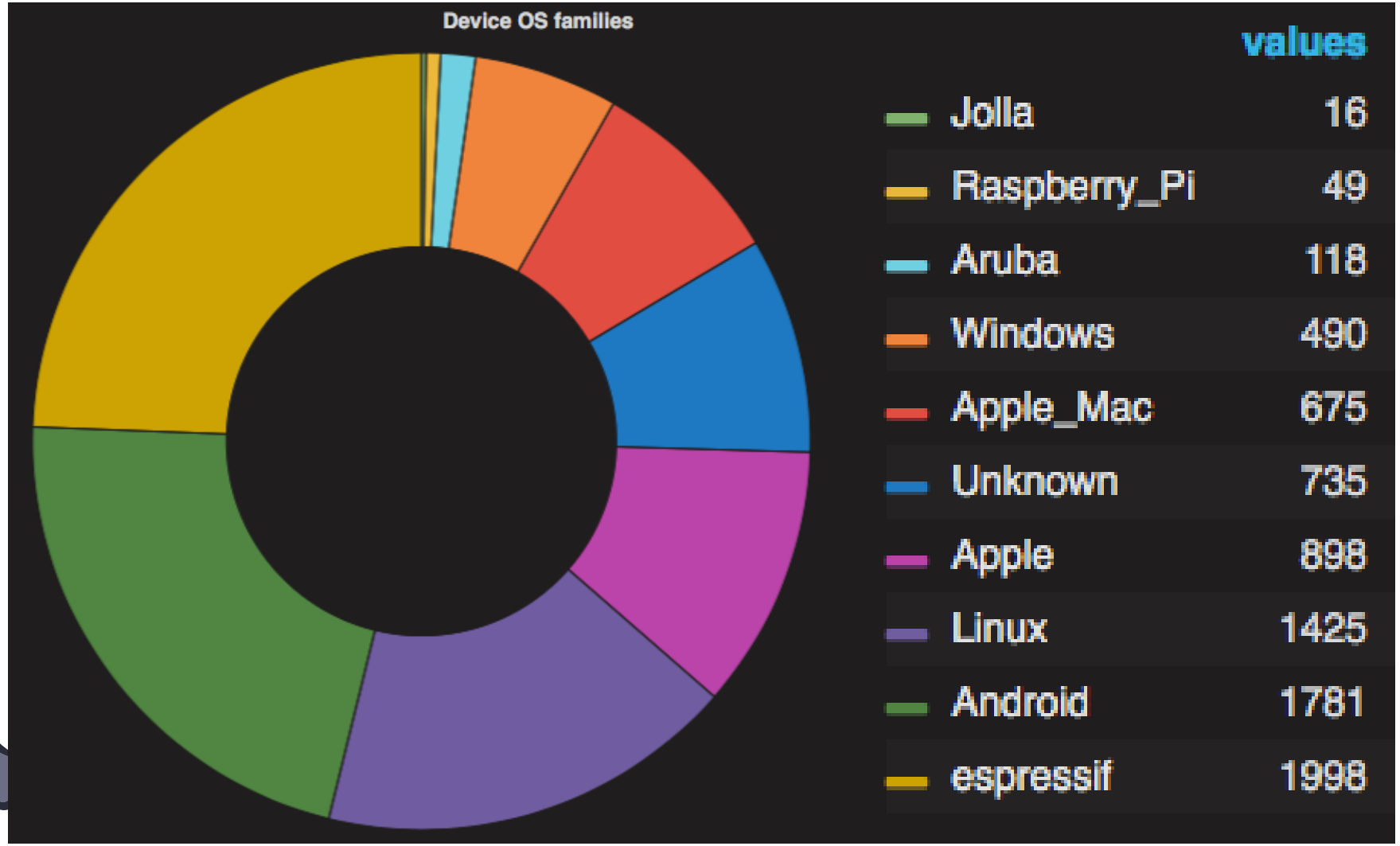


NUMBERS

- 500 hours of volunteer time
- 500kg of ‘badgestuff’
- < 5% pcb failure
- 20 USB cables survived over 1000 plug-ins each (Go AliExpress ANKER cables!)
- 1 burned out laptop

- 15.000 stickers
- 22.000 SK6812 (so 90.000 LEDs)
- 25% of Wifi devices on camp were badges
- At least 2000 badges have been used at some point
- We made 2.4ghz popular again!
- 700 played the SHA2017Game
- 150 won!

NOC KNOWS BEST



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IT'S A GROUP EFFORT

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IT'S A GROUP EFFORT

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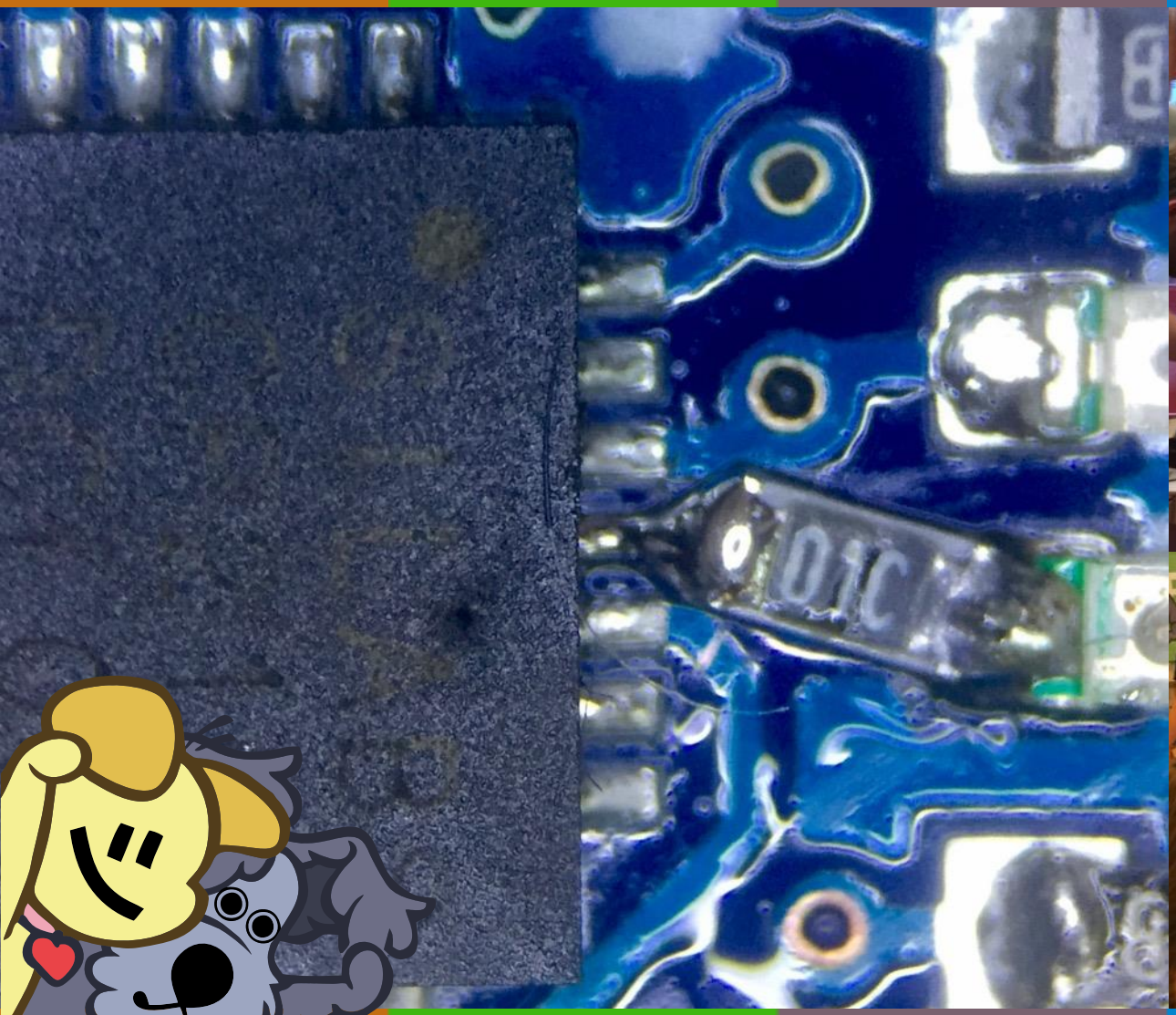
THE EXCREMENT HIT THE VENTILATOR



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AT CAMP

AT CAMP

PILA
EAT LEMONS
COS / MARTIN
THENES
MRQ
JENNIFER
LED Rainbow
PIRA
ELLAKATJE
OLIVER
GONZOZOOO
IJON

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AT CAMP

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THANKS

ESPRESSIF

Madison Gurkha
Take Control of Your Digital Security

SILICON LABS

GUARDIAN 360°

transip

STEGEN ELECTRONICS

leaseweb
reliable hosting

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THANK YOU

ALL OUR VOLUNTEERS

Electromagnetic Field 2016

THANK YOU

VISITORS

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Q AND A