

1st Parallella Conference Tokyo 2015

Introduce Adapteva Parallella

Parallella Community JP Masafumi Ohta

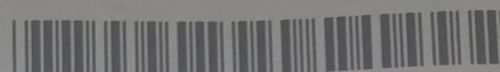
A man, Masafumi, is speaking at a wooden podium. He is wearing a grey vest over a white shirt and an orange lanyard. The podium has a microphone and a sign that says "Community Use All open developer conference" with the Sun logo. In the background, a screen displays "OpenSolaris™ Operating System" and "ASUS Eee PC for Geeks".

Masafumi is former Sun OpenSolaris Core Contributor and now he is leading Japanese Raspberry Pi Users Group, and helping Raspberry Pi Foundation as official Mod at Raspberry Pi Forum.

adapteva Pick Pack Slip

BACKER / ORDER ID:

Date: 4/24/2014 Time: 1:04



1485068

What's Parallella

Thanks for supporting this project and we hope you will make good use of the Parallella board and any accessories you get with it.

<http://www.kickstarter.com/projects/adapteva/parallella-a-supercomputer-for-everyone>

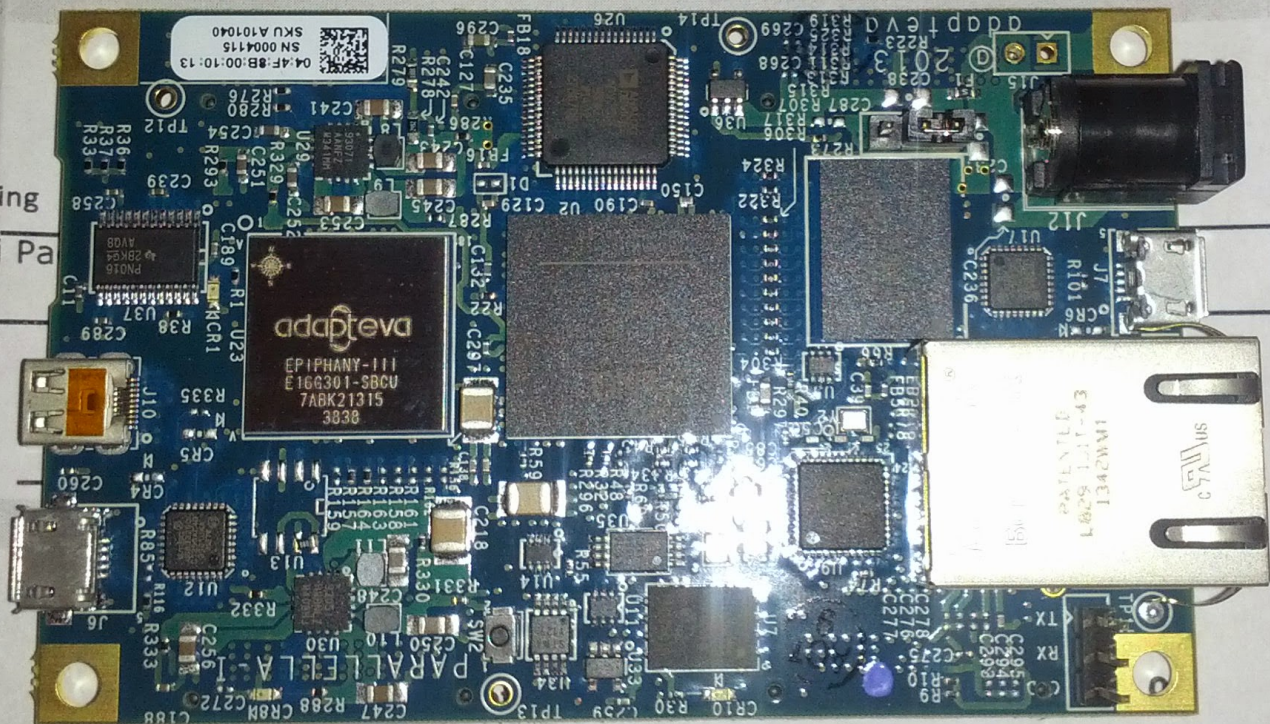
Suggested Shipping

DHL GlobalMail Int'l Pa

Qty
Shipped

1

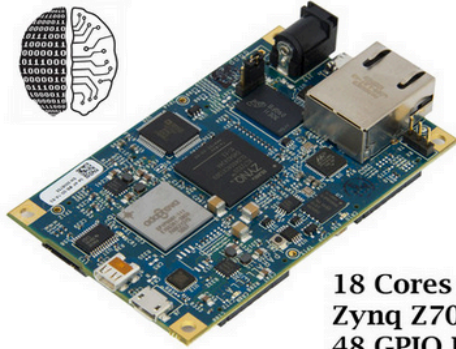
1



Important Note

conforming

Parallella: Supercomputing for everyone



18 Cores
Zynq Z7020
48 GPIO Ports
HDMI, USB

Parallella-16 Embedded Platform

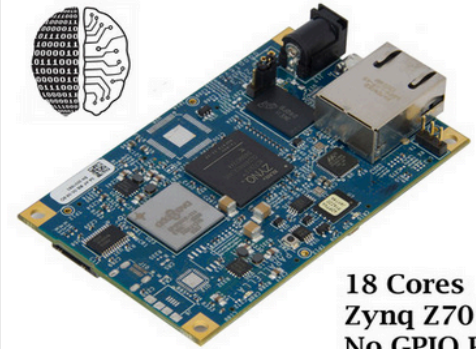
\$249.00 Sold Out



18 Cores
Zynq Z7010
24 GPIO Ports
HDMI, USB

Parallella-16 Desktop Computer

\$149.00 Sold Out



18 Cores
Zynq Z7010
No GPIO Ports
No HDMI, USB

Parallella-16 Micro-Server

\$119.00 Sold Out

Quick Links

[Home](#)

[Catalog](#)

[About Us](#)

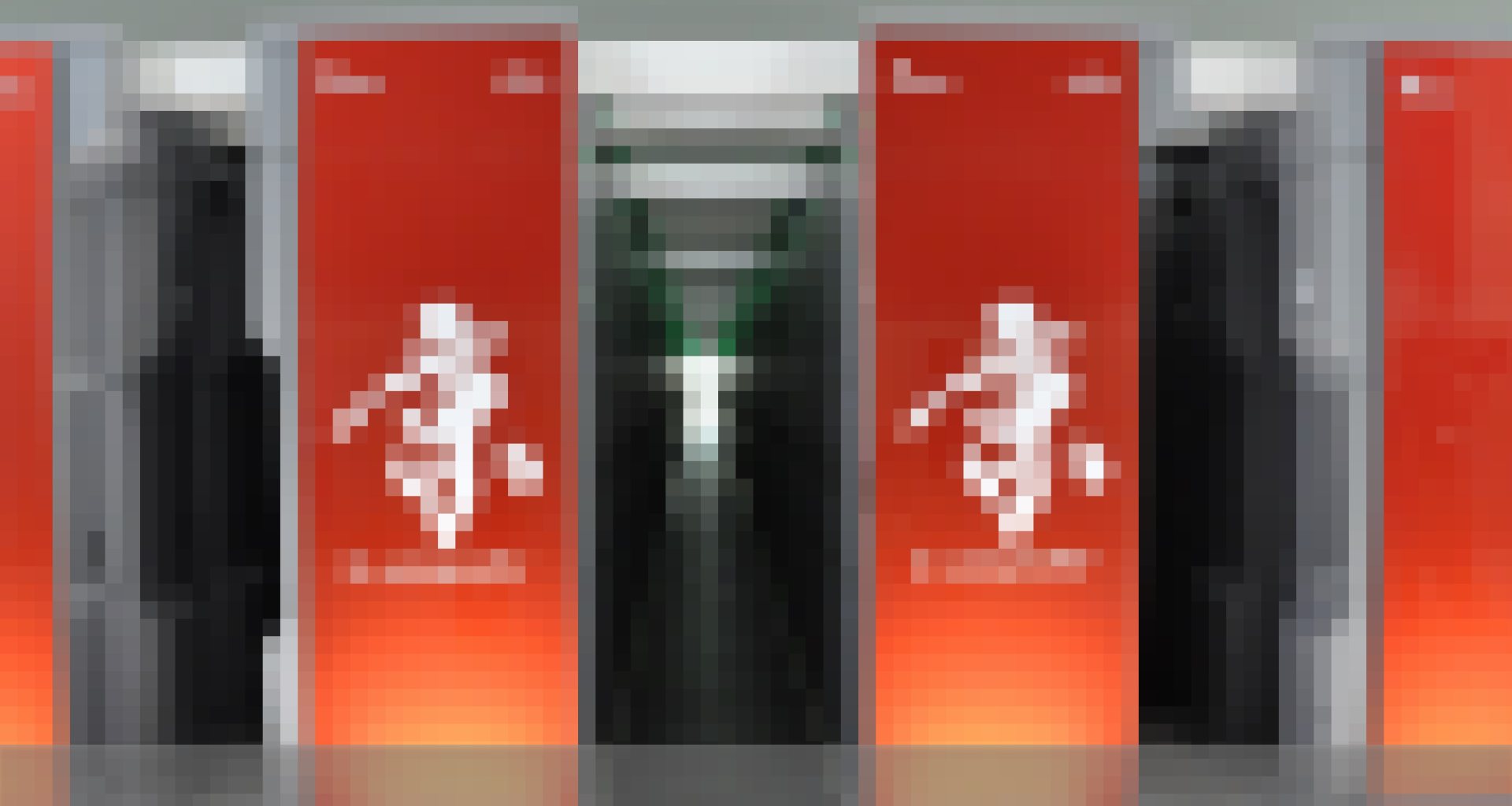
[Go to Adapteva Home](#)

Follow us

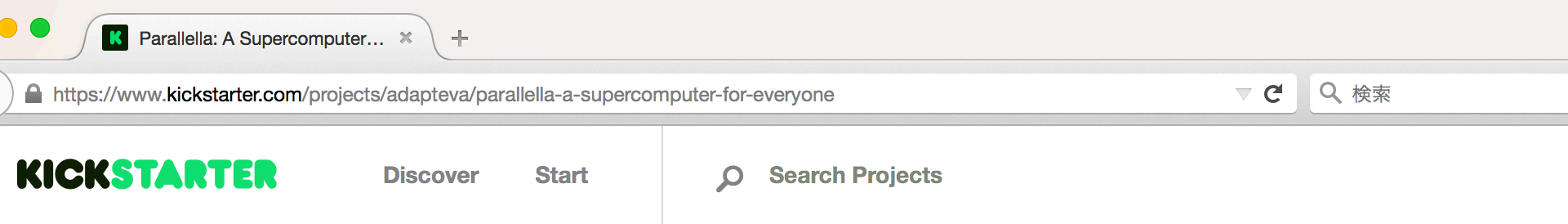


Why purchase Parallella





Lowest Cost Mini Spacon!



Parallella: A Supercomputer For Everyone

But I am too late...

The Parallella project makes parallel computing accessible to everyone.

Created by
Adapteva

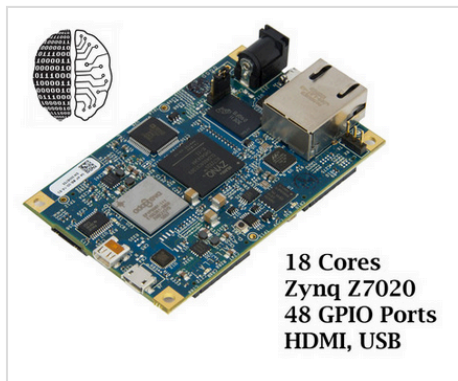
4,965 backers pledged \$ to bring this project to life.





I bought as 'Pre-Order'

Parallella: Supercomputing for everyone



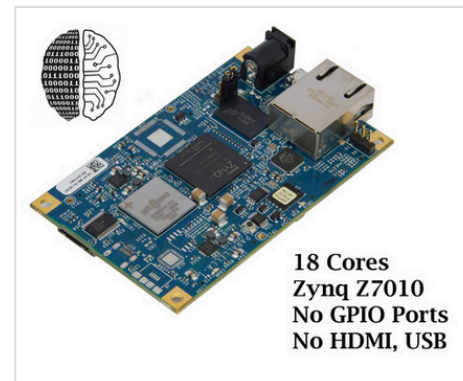
18 Cores
Zynq Z7020
48 GPIO Ports
HDMI, USB

**Parallella-16 Embedded
Platform**



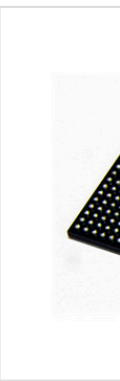
18 Cores
Zynq Z7010
24 GPIO Ports
HDMI, USB

**Parallella-16 Desktop
Computer**



18 Cores
Zynq Z7010
No GPIO Ports
No HDMI, USB

Parallella-16 Micro-Server
\$119.00 Sold Out



**8 x Epipl
Micropro**



Official Cable kit and Case



Official Preinstall Image

SanDisk
Ultra
microSDHC UHS-I
Card with Adapter

Ideal for Android
and other smart
tablets

Take better pictures
Full HD video²



3
GB

SPEED
UP TO

48

MB/s*

320X

よ なか
世の中は
ようじん
用心がたいせつだ
ということだよ

がんじょう
頑丈そうな
いし はし かんたん
石の橋も 簡単に
こわれてしまう



Why so serious?

Did you know that elinux.org has Mailing Lists? Please feel free to [register today](#) to discuss the wiki in general, request features, etc.

Parallella VerifiedPeripherals

Contents [\[hide\]](#)

- 1 Guidance
- 2 Power supplies
- 3 Micro SD
- 4 Powered hubs
- 5 Keyboards
- 6 Mice and Pointing devices
- 7 Wifi
- 8 Bluetooth
- 9 Cellular (GSM/GPRS/3G/4G)
- 10 Ethernet
- 11 Sound cards
- 12 Webcams
- 13 Video/frame grabbers
- 14 GPS
- 15 Serial

! Important Notices

Using non-standards compliant powered USB hubs may damage the Parallella!

Check the [list of all certified USB hubs](#) [before](#) plugging in your USB hub.

- [Critical issue with non-conforming USB powered hubs.](#) [↗](#)

Using a power adapter supplying more than 5V may damage the Parallella

[The smoke escape from my Parallella](#)

Parallella should be
broken USB and
AC Power anomaly

A close-up photograph of an ARM processor chip. The chip is a dark, square integrated circuit with the word "ARM" embossed in large, bold, capital letters in the center. It is mounted on a blue printed circuit board (PCB), with the fine, gold-colored pins of a ball grid array (BGA) visible along the bottom edge. The background is a solid blue color.

**ARM is 'software electric
power control'**

A top-down view of a Raspberry Pi board housed in a clear acrylic case. A black cooling fan is mounted on top of the board, secured with four screws. A silver heat sink is attached to the board, with red and blue wires connected to it. The board is populated with various components, including a micro-USB port, a USB-A port, and a micro-SD card slot. A QR code and technical specifications are visible on the bottom of the board.

**Should be run a fan
Cooling the board**

A black and white photograph showing various electronic accessories laid out on a perforated metal surface. There are two coiled cables, one with a USB-A connector and another with a different connector. A power adapter with a two-prong plug is also visible. The text 'First, AC (included official package) has been broken...' is overlaid in white on a semi-transparent dark background at the bottom of the image.

First, AC (included official package) has been broken...

**Each AC Power deffers..
(Especially made in Chinese)**

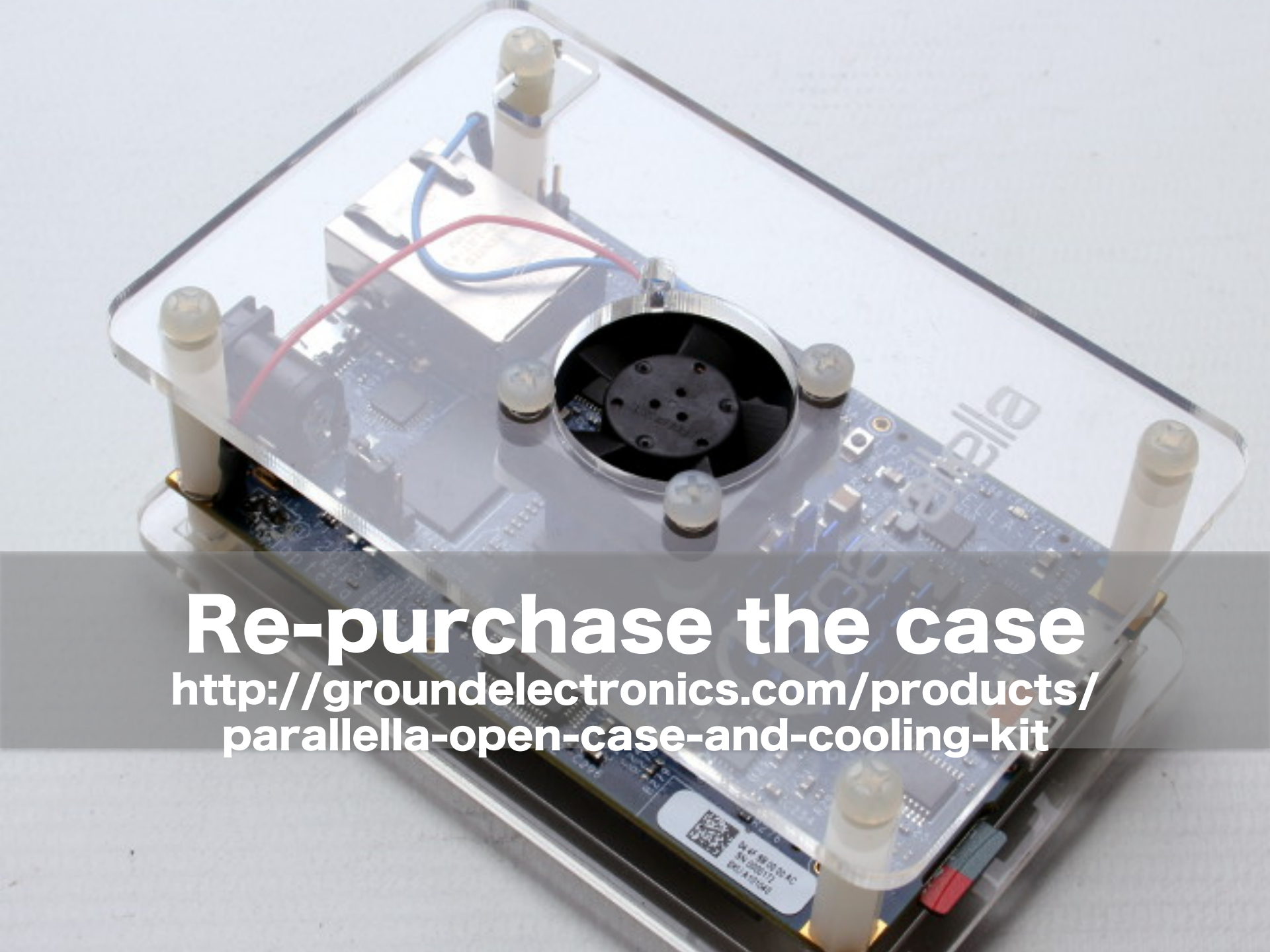


**Sony PSP-100 is most reliable
AC as 5V/2A,work great!**



AC plug converter

<http://item.rakuten.co.jp/denshi/53099/>



Re-purchase the case
<http://groundelectronics.com/products/parallella-open-case-and-cooling-kit>

**I am scared using internal
power for fan – want to
prevent from Power
anomaly thus broken the
board**

J15



A close-up photograph of a black, square-shaped external power fan. The fan has a central circular hub with two screws and a circular vent in the middle. The outer frame is square with rounded corners and four mounting holes. A red cable is visible on the left side. The background is white.

Bought 25x25x8 External Power

http://www.amazon.co.jp/gp/product/B00R0AIMG2?psc=1&redirect=true&ref_oh_aui_detailpage_o03_s00

Lists? Please feel free to [register today](#) to discuss the wiki in general, request features, etc

pherals



Important Notices

Using non-standards compliant powered USB hubs may damage the Parallella!

Check the [list of all certified USB hubs](#) **before** plugging in your USB hub.

- [Critical issue with non-conforming USB powered hubs.](#)

Using a power adapter supplying more than 5V may damage the Parallella

- [Try to make a case for mini-parallella](#)

**We can't buy certificated
self-powered HUB in Japan**

<https://twitter.com/parallelw>



Bought from Amazon

<http://tinyurl.com/o734d29>



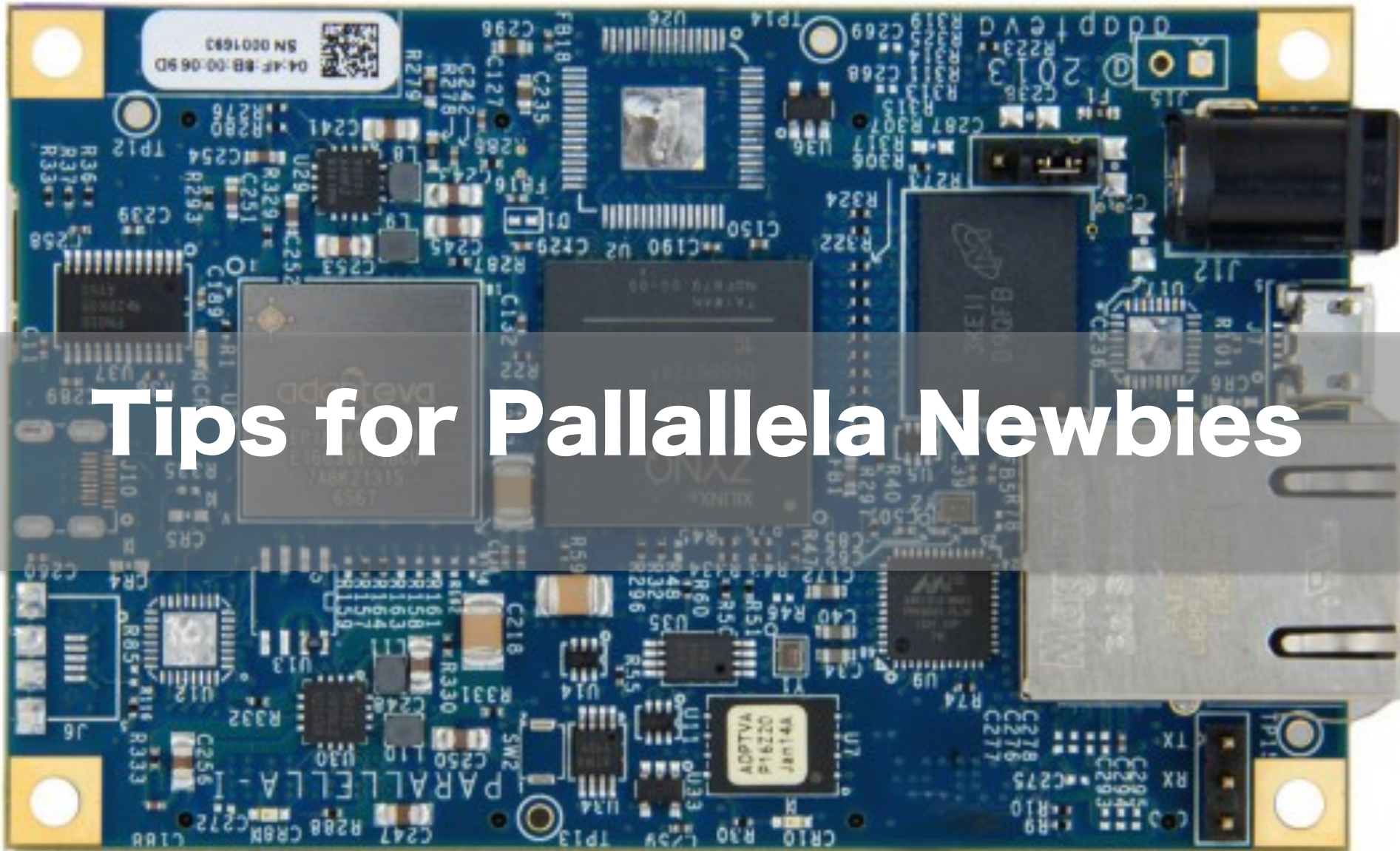
**Check Watt Monitor
to AC Consumption**



Radiation thermometers

- **It works on 6-7W (HDMI)**
- **3.6-4.9W as headless**
- **37-44 degrees using Case**
- **USB often doesn't work, please replug or reset parallella**
- **Parallella run all 24 hours(proper case and fun)**

Tips for Pallalela Newbies





Parallella Fan!

Home | 記事一覧 | BBS

最新記事

Parallella Fan is most useful website for newbies please check out!

[マンデルブロ集合をFPGAに実装する\(固定小数点版\)](#)

FPGAに実装するマンデルブロ集合のプログラムを作り、小数点演算を使って更に高速化しました。
2015/04/27 20:50更新 (初出2015/04/24 21:40)

[マンデルブロ集合の浮動小数点演算をFPGAで並列化する](#)

<http://cellspe.matrix.jp/parallella/>

Synthesijerを使って、マンデルブロ集合の演算を並列化してFPGAに実装します。

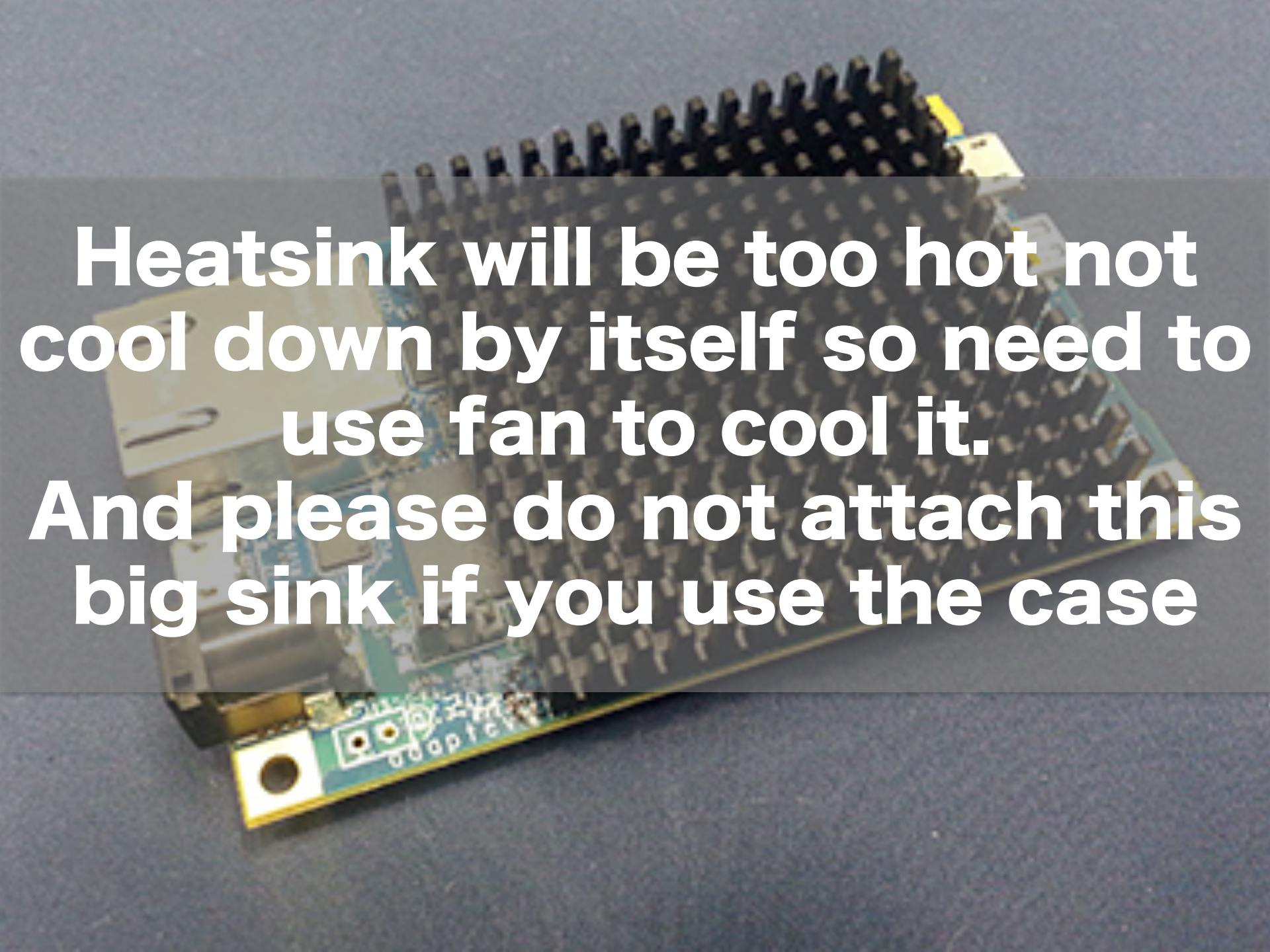
2015/04/27 20:50更新 (初出2015/03/11 20:30)

[SynthesijerでJavaプログラムからHDLコードを自動生成する](#)

Synthesijerはオープンソースの高位合成ツールです。通常のJavaプログラムからHDLコードを自動生成できます。


2015/04/27 20:50更新 (初出2015/02/14 22:00)

[FPGAに独自の回路を追加する](#)



**Heatsink will be too hot not
cool down by itself so need to
use fan to cool it.
And please do not attach this
big sink if you use the case**

ftp://ftp.parallella.org/ubuntu/dists/trusty/image/ の一覧

 [上位のディレクトリへ移動](#)

名前	サイズ	最終更新日時	
 beta		2015/04/28	11:36:00
 old		2014/11/09	0:00:00
 ubuntu-14.04-140611.img.gz	2158223 KB	2014/06/11	0:00:00
 ubuntu-14.04-hdmi-z7010-20140611.img.gz	2167677 KB	2015/03/04	1:33:00
 ubuntu-14.04-hdmi-z7020-20140611.img.gz	2169462 KB	2015/03/04	0:58:00
 ubuntu-14.04-headless-z7010-20141110.img.gz	457997 KB	2014/11/09	0:00:00
 ubuntu-14.04-headless-z7010-20150130.1.img.gz	526947 KB	2015/01/30	9:48:00
 ubuntu-14.04-headless-z7020-20141110.img.gz	454608 KB	2014/11/09	0:00:00
 ubuntu-14.04-headless-z7020-20150130.1.img.gz	526983 KB	2015/01/30	9:51:00

if you use 'parallella-
examples please use old
HDMI- release.some doesn't
work on the latest

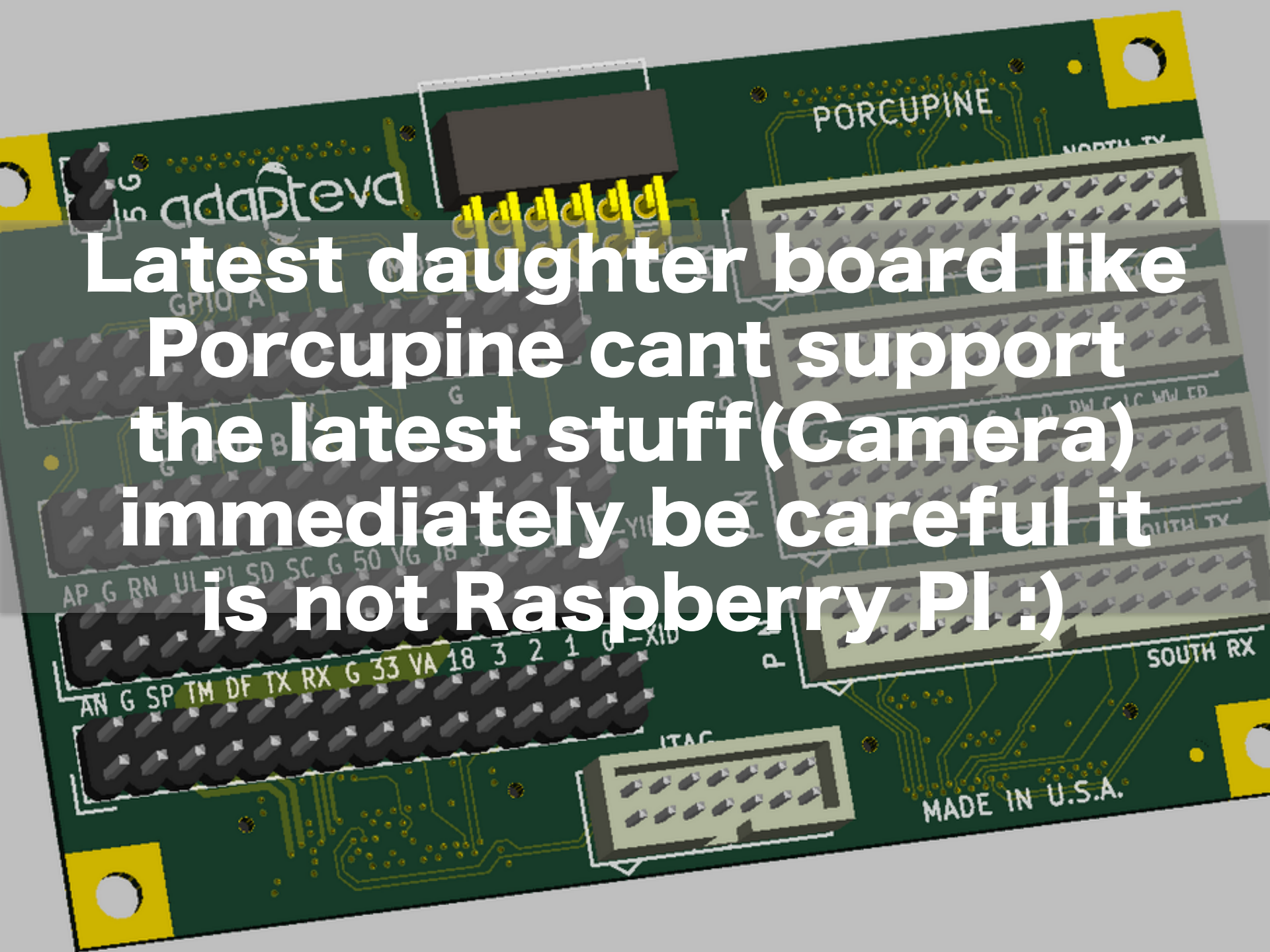


**finishing copying image to
SD you will need diskpart
and expand system – use
Ubuntu PC for it**



**Need to kernel compile to
use for using USB DAC
or something – do check
your stuff before using**

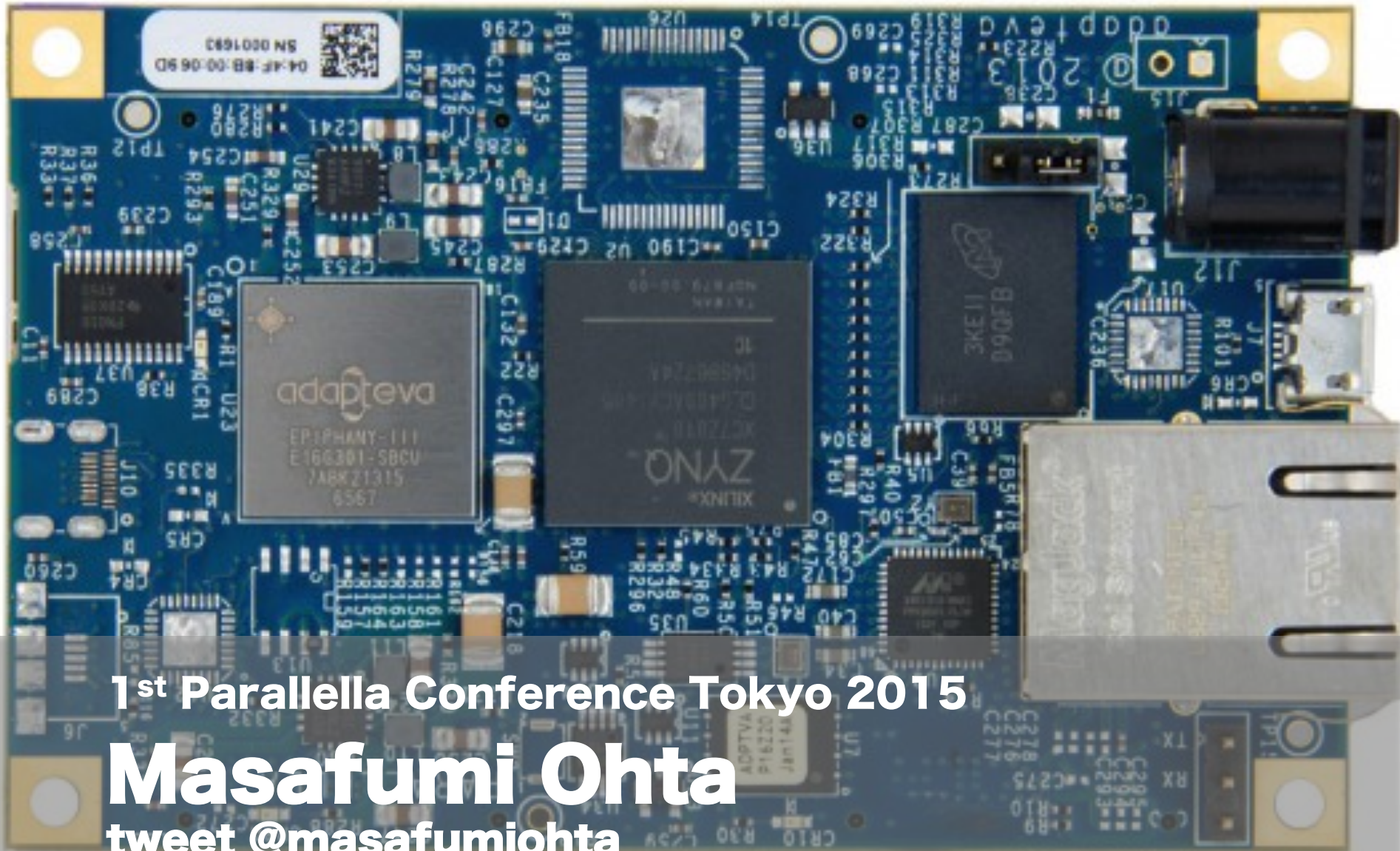
```
linaro@linaro-ubuntu-desktop: ~/mandelbrot
linaro@linaro-ubuntu-desktop: ~/ma...
linaro@linaro-ubuntu-desktop: ~/man
sh
smem_start: 2d100000
smem_len: 3145728
line_length: 4096
xres: 1024
yres: 768
xres_virtual: 1024
yres_virtual: 768
xoffset: 0
yoffset: 0
resolution: 512 x 512
bpp: 4 Bytes / pixel
iteration: 256 / pixel
```



**Latest daughter board like
Porcupine cant support
the latest stuff(Camera)
immediately be careful it
is not Raspberry Pi :)**



**We have demo
boards (Server/Desktop/
Embedded) at trial corner.
Please check out!
(Thanks RS Components JP!)**



1st Parallella Conference Tokyo 2015

Masafumi Ohta

tweet @masafumiohta

masilto:masafumi`pid0.org