

Can small companies upstream?

The story of an Industrial Camera manufacturer.

Ricardo Ribalda, PhD

Small vs BIG



Employees



Budget

MORNINGSTAR

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Amazon.com Inc AMZN MORNINGSTAR RATING

Quote Price vs. Fair Value Trailing Returns Financials Valuation Operating Performance Dividends Ownership

Show Full Chart >

\$1,944.30 ↑ 17.88 | 0.93%

Previous Close 1,926.42 1,955.23

10a 12p 2p 1,897.61

Bid/Size Ask/Size Day Range Volume / Avg
1,952.00×25 1,952.90×1 1,932.25 – 21,118.0 / 910,852.1

Year Range Forward Div Yield Market Cap Investment Style
931.75 – 2,050.50 — 948.3152 Bil Large Growth

Price/Sales Price/Earnings Consensus Forward P/E Price/Book
4.64 160.53 70.92 27.10

USD | NASDAQ | Last close prices updated as of Sep 20, 2018, 4:30 PM EST | BATS BZX Real-Time Price

Scope



Industrial Grade



Commercial Grade

Problem

Starts easy



Documentation

96Boards » Documentation

All Docs Guides Consumer Edition Enterprise Edition IoT Edition Mezzanine Sp

Welcome to the official documentation for 96Boards, this documentation is written by the 96Boards community. It contains links to third party material.

Contents - Start Here

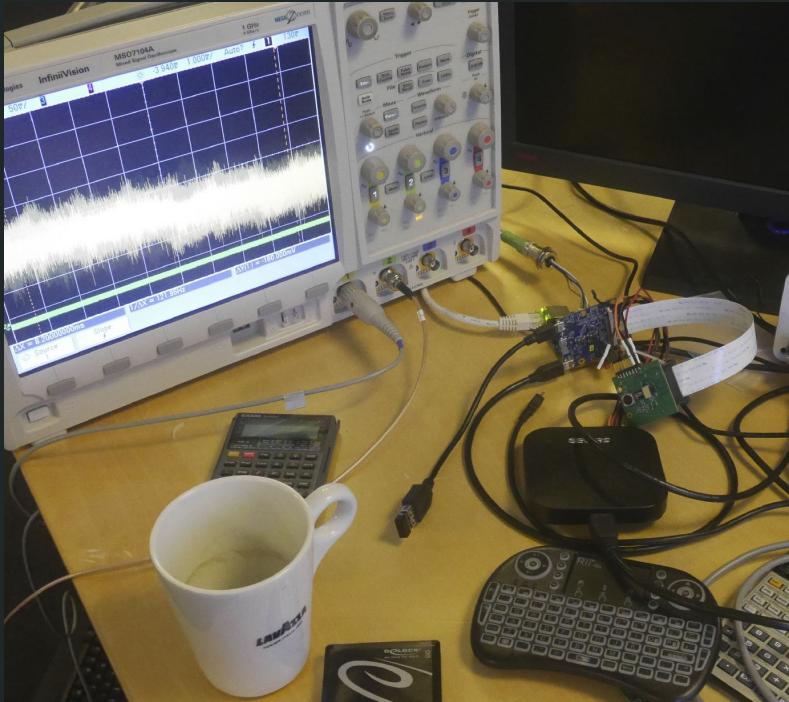
Select your platform for a list of supported products (left), or jump to 96Boards specific resources (right).

Important links:

- 96Boards Guides
- Contribute to this repository

Platform	Description
IoT Edition 	Expand on all 96Boards with new interfaces, control, and other embedded applications.
Consumer Edition 	These small, low-cost, and low-power platforms are great for developers, makers, and hobbyists.
Enterprise Edition 	These powerful, reliable, ARM based systems are ideal targets for networking and security.

Complicates...



评论 ... 综合评分 : 4 积分/C币 : 5. IMX214 datasheet 立即下载.

7805 DATASHEET-CSDN下载 - CSDN下载频道

<https://id.download.csdn.net/download/vmw123000/7836307> - Translate this page

高通MSM7225 datasheet 立即下载. 上传者 : stonechen1007 时间 : 2009-03-06 综合评分 : 4 积分/C币 : 5. IMX214 datasheet 立即下载. 上传者 : yanthingui198912 ...

Mouser Electronics, Inc.

<https://m.mouser.com/QuickViewProdDetail.aspx?PartNum=842-LF...EVN...> ▾

For Use With: ECP5, IMX 214, LIF-MD6000, SII1136. Description/Function: Embedded vision. Packaging: Bulk. Brand: Lattice ... LF-EVDK1-EVN Datasheet ...

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IMX214 PDF datasheet,IMX214 picture|price equivalent ...

<https://www.icpdfdatasheet.com/index.php?route=product/search&search=IMX214>

IMX214 PDF datasheet: icpdfdatasheet.com offers you the best IMX214 price.picture and IMX214 equivalent.

Searches related to imx214 datasheet

[sony imx214 smartphones](#) [sony imx214 review](#)

[sony imx214 price](#) [sony imx214 camera](#)

[sony imx sensor datasheet](#) [imx135 datasheet](#)

[imx214 camera module](#) [imx214 camera module datasheet](#)

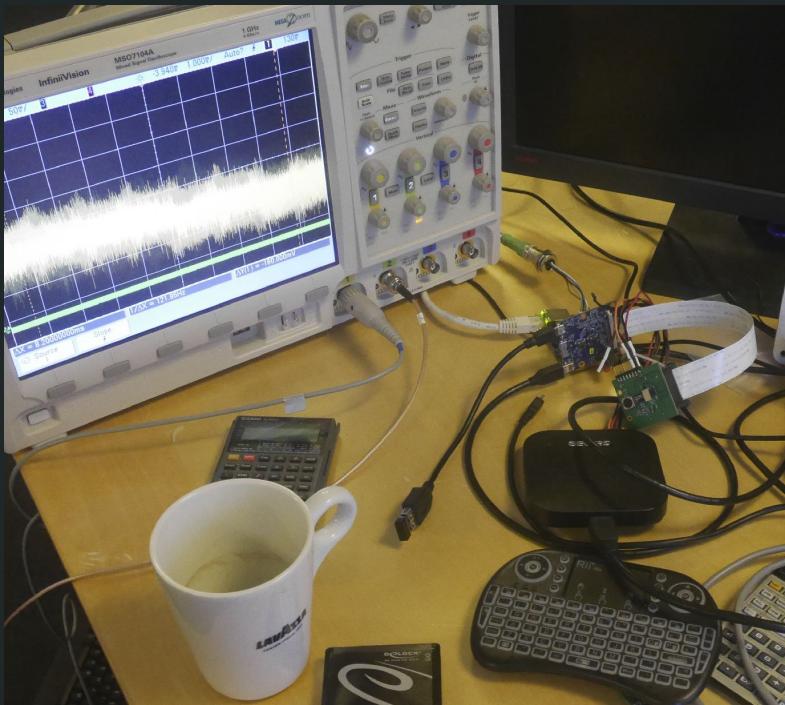
< Gooooooooooooooggle >

Previous

16 17 18 19 20 21 22 23 24 25

Next

Complicates...



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IMX214-0AQH5-C_3.0.0_Data_Sheet

wwhcq. 2017-10-10 ★ 3.9分(高于92.4%的文档) 421 7 举报

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SONY

Diagonal 5.867 mm (Type 1/3.06) 13Mega-Pixel for Color Cameras

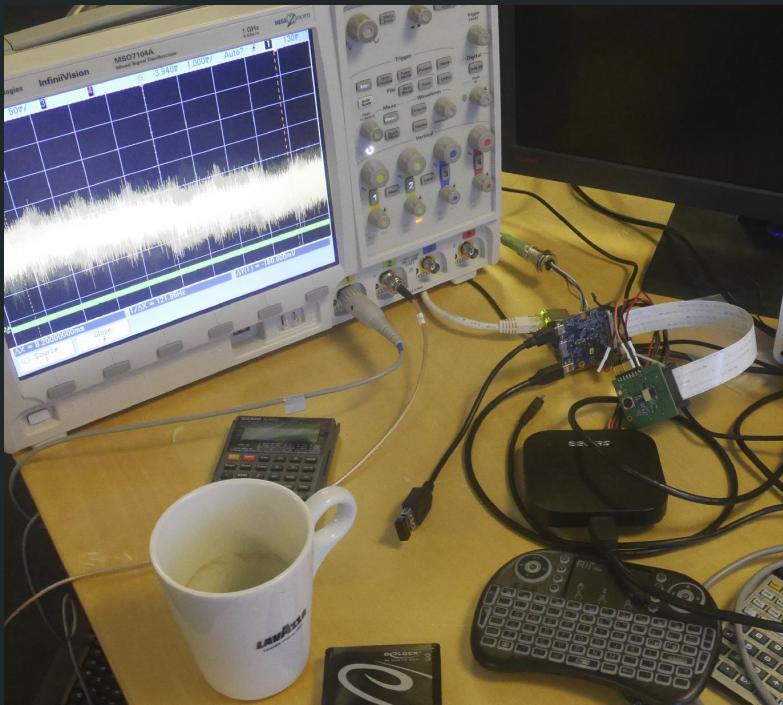
Searches related to imx214 datasheet

sony imx214 smartphones	sony imx214 review
sony imx214 price	sony imx214 camera
sony imx sensor datasheet	imx135 datasheet
imx214 camera module	imx214 camera module datasheet

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sony imx sensor datasheet imx135 datasheet
imx214 camera module imx214 camera module datasheet

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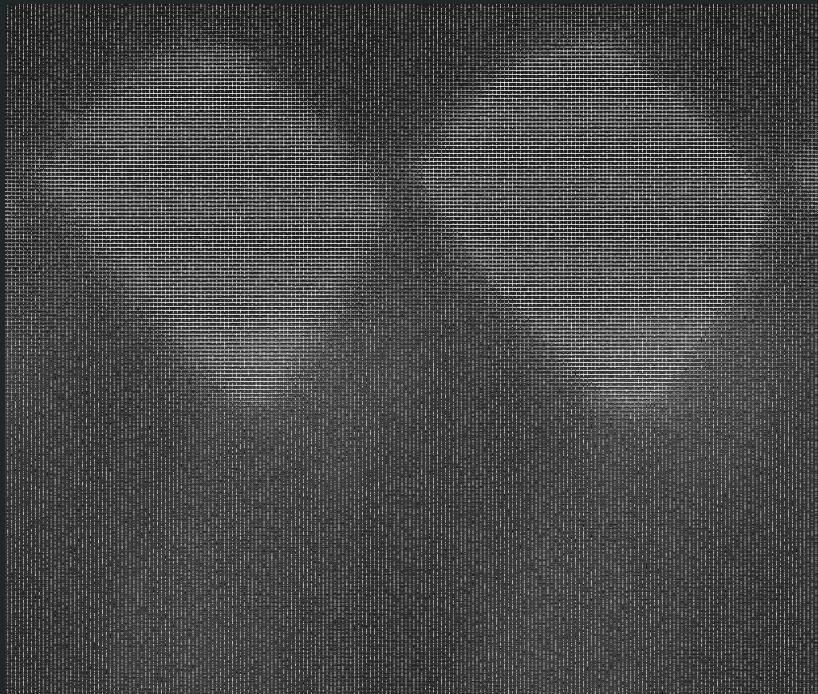
retire at 40 with 2 million retire at 40 with 1 million
how to retire at 40 in india retire by 40 calculator
how to retire at 40 uk retire by 40 passive income
retire at 40 reddit how to retire at 40 channel 4

< GoooooooooooooG >

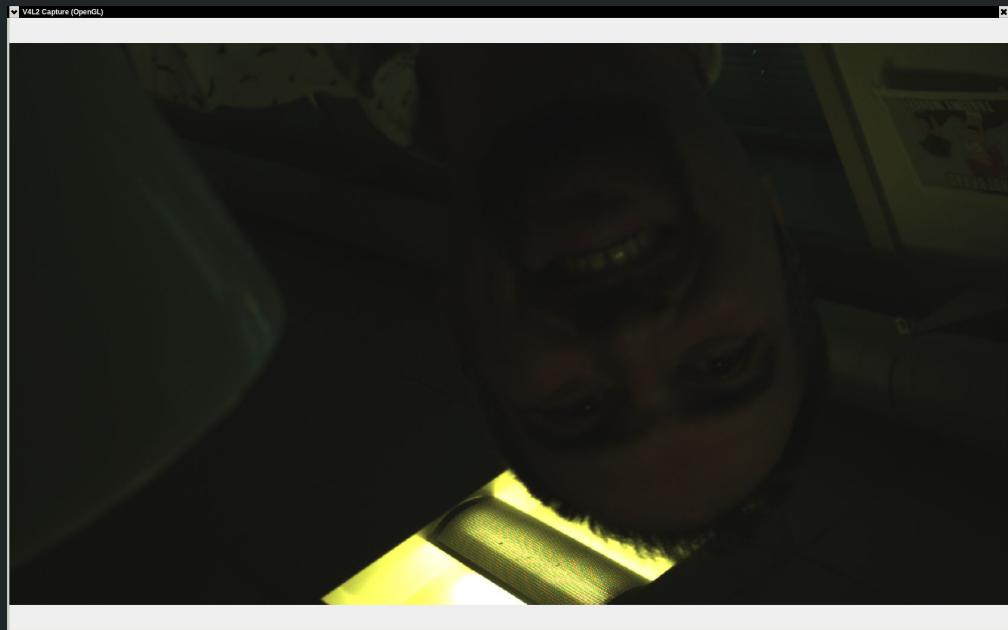
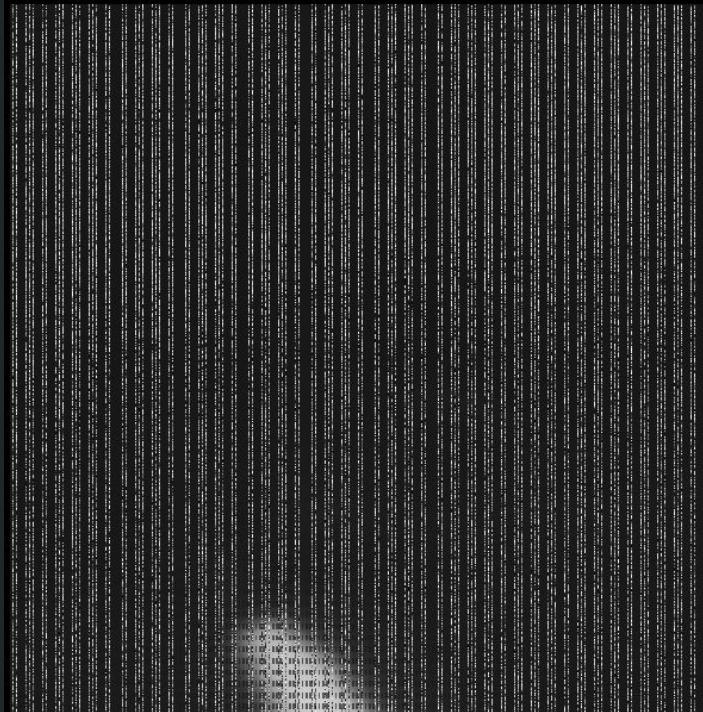
Previous 16 17 18 19 20 21 22 23 24 25 Next 1 2 3 4 5 6 7 8 9 10

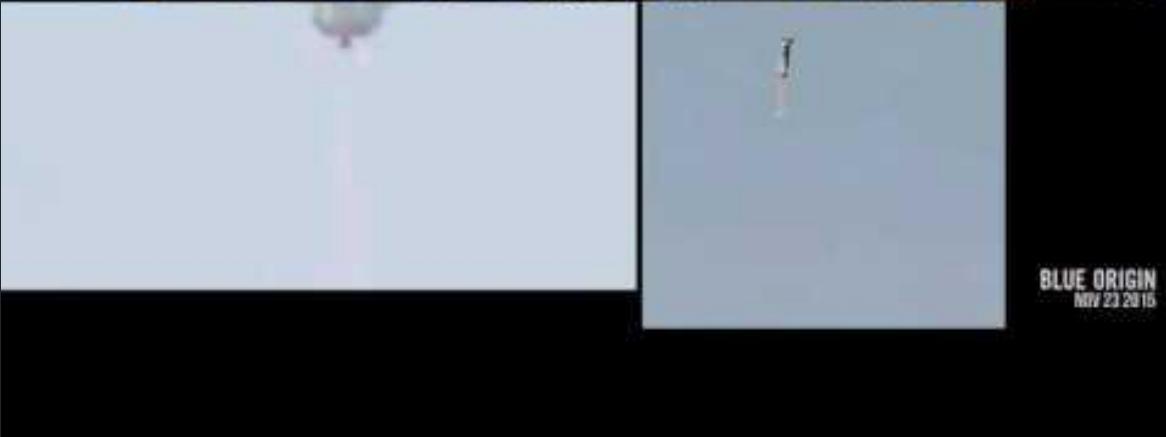
Denkmark ● 2000, Frederiksberg - From your phone (Location History) - Use precise location

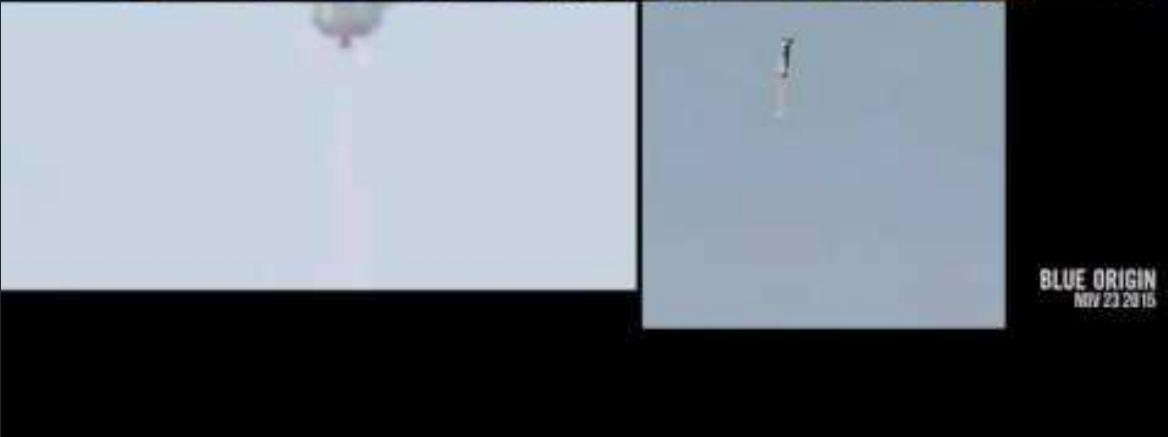
Light at the end of the tunnel....



It works!







Benefits

Access to Developers

The screenshot shows an IRC client interface with the following details:

- Channel:** #v4l | freenode
- URL:** https://www irccloud com/irc/freenode/channel/v4l
- Date:** Thursday, September 20th, 2018
- Participants:** ribalda, hverkuil, tfiga, and Burton, Ross.
- Conversation Summary:**
 - ribalda: ./configure make sudo make install
 - ribalda: Hello! I am working on an upstreamable version of an imx214 driver. The last thing left is splitting the sensor module and the focus module. I am trying to use "lens-focus" async sub-device. Everything seems fine, but the power management because the focus device is not part of the pipeline the s_power function is not called
 - hverkuil: ANN: I'll start preparing the agenda for the upcoming Media Summit in Edinburgh on Monday, so if you want to discuss/present something on that day, please send an [RFP] mail to the linux-media mailinglist asap.
 - ribalda: imx214 or imx214?
 - ribalda: everything works fine on my db820 board, but the focus is controlled by the same driver, and it should be controlled with the ad5820 driver
 - hverkuil: I thought we were using the same sensor, but it is a different one. Just ignore me :)
 - ribalda: sorry, I have fat fingers :P
 - tfiga: Tomasz Figa
ribalda: wouldn't you normally have the userspace keep the focuser subdev open and control the focus continuously? the focuser drivers we've been implementing power on on subdev open
 - ribalda: Ricardo Ribalda
tfiga: then what is the point for referencing the focuser on the sensor on the device tree?
 - tfiga: Tomasz Figa
ribalda: to know which focuser belongs to which sensor I guess although I'm not saying that behavior is officially blessed one ;)
I don't think it's specified anywhere...
 - ribalda: Ricardo Ribalda
tfiga: but I think that information is not accessible, at least is not shown in media-ctl -p
 - ribalda: Thanks!
- Autocomplete Suggestion:** A dropdown menu shows suggestions for channels and users, including freenode, #linuxtv, #v4l, #oe, #u-boot, and Members (88). It also lists various users such as ops, chanserv, and several others.

Reduce Maintership cost

```
ricardo@piling:~/hacking/linux$ git rebase linus/master
First, rewinding head to replay your work on top of it...
Applying: media: video_function_calls.rst: drop obsolete video-set-attributes reference
Applying: media: af9035: prevent buffer overflow on write
Applying: media: camss: mark PM functions as __maybe_unused
Applying: media: camss: Use managed memory allocations
Applying: media: camss: add missing includes
Applying: media: vicodec: add QP controls
Applying: media: vicodec: add support for more pixel formats
Applying: media: vicodec: simplify flags handling
Applying: media: vicodec: simplify blocktype checking
Applying: media: vicodec: improve handling of uncompressable planes
Applying: media: vicodec: rename and use proper fwht prefix for codec
Applying: media: vicodec: split off v4l2 specific parts for the codec
Applying: media: vicodec: fix out-of-range values when decoding
Applying: media: ov772x: use SCCB regmap
Applying: media: ov9650: use SCCB regmap
Applying: media: ov5670, ov13858: Use pm_runtime_idle
Applying: media: i2c: Fix pm_runtime_get_if_in_use() usage in sensor drivers
Applying: media: ipu3-cio2: Use dma_zalloc_coherent to replace dma_alloc_coherent + memset
Applying: media: ov772x: Disable clk on error path
Applying: media: ov5640: fix mode change regression
```

Reduce Maintership cost

```
ricardo@piling:~/hacking/linux$ git rebase linus/master
First, rewinding head to replay your work on top of it...
Applying: media: video_function_calls.rst: drop obsolete video-set-attributes reference
Applying: media: af9035: prevent buffer overflow on write
Applying: media: camss: mark PM functions as __maybe_unused
Applying: media: camss: Use managed memory allocations
Applying: media: camss: add missing includes
Applying: media: vicodec: add QP controls
Applying: media: vicodec: add support for more pixel formats
Applying: media: vicodec: simplify flags handling
Applying: media: vicodec: simplify blocktype checking
Applying: media: vicodec: improve handling of uncompressable planes
Applying: media: vicodec: rename and use proper fwht prefix for codec
Applying: media: vicodec: split off v4l2 specific parts for the codec
Applying: media: [media] ad5820: Define entity function
Applying: media: [media] ad5820: Add support for enable pin
Applying: media: [media] ad5820: DT new optional field enable-gpios
Applying: media: [media] ad5820: Add support for of-autoload
Applying: media: [media] ad5820: Add support for acpi autoload
Applying: media: [media] ad5820: Add support for ad5821 and ad5823
Applying: media: [media] ad5820: DT new compatible devices
ricardo@piling:~/hacking/linux$ ^C
```

Training

← → 🔒 https://review.coreboot.org/q/status:open

PolyGerrit CHANGES DOCUMENTATION BROWSE Q status:open

Subject	Status	Owner	Assignee	Project
► WIP: selfboot: remove bounce buffers		Ronald G. Minnich		coreboot
arch/riscv: Adjust compiler flags for scan-build		Jonathan Neuschäfer		coreboot
Add initial J-Link SPI programmer		Marc Schink		flashrom
amd/common/ssp: Remove use of PspBaseLib		Charles Marslett		coreboot
soc/intel/common/block: Don't use device_t		Elyes HAOUAS		
sb/amd: Use 'unsigned int' to bare use of 'unsigned'		Elyes HAOUAS		
{device,drivers}: Use 'unsigned int' to bare use of 'unsigned'		Elyes HAOUAS		
mb/google/auron/variants: Don't use device_t		Elyes HAOUAS		
mb/clevo/n130wu: Add mainboard		Felix Singer		
mb/google/octopus: Close unused I2C bus 7 include SCL and SDA for Phaser		Peichao Li		
nocturne: Set eMMC tuning param.	WIP	Pratikkumar V Prajapati		
mb/**: Harmonise FD and devicetree on boards featuring ICH7		Arthur Heymans		
vpd: Add support for reading BD addresses from the VPD		Matthias Kaelchke		
google/cheza: Read MAC addresses from the VPD		Matthias Kaelchke		
HACK SDM845: Set GBB_FORCE_DEV_SWITCH_ON		T.Michael Turney		
HACK sdm845: Ref SDCard driver	Merge Conflict	T.Michael Turney		
HACK drivers/sdcard: Add SDCard		T.Michael Turney		
sdm845: Add Interface between CB & QCLib	Merge Conflict	T.Michael Turney		
HACK Add bl31.elf for Cheza	Merge Conflict	T.Michael Turney		
sdm845: Add display hardware pipe line initialization [patch 3 of 3]	Merge Conflict	T.Michael Turney		
sdm845: Add DS1 clock support	Merge Conflict	T.Michael Turney		
sdm845: Add display dsi interface programming [Patch 2 of 3]		T.Michael Turney		

 cmake/config_posix Add missing Feature test Macro ... ✓ 5e51f7f

SloCompTech approved these changes 3 days ago

[View changes](#)

I built library and found out that mentioned warnings, errors are fixed in this pull request.

Add more commits by pushing to the **master** branch on **ribaldal/libfreefare**.

 **Review required**
At least 1 approving review is required by reviewers with write access. [Learn more](#).

 **All checks have passed**
1 successful check [Show all checks](#)

 **Merging is blocked**
Merging can be performed automatically with 1 approving review. [Update branch](#)

Recruiting

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All jobs filters

Date Posted	LinkedIn Features	Job Type	Location
<input type="radio"/> Past 24 hours (1317)	<input type="checkbox"/> Under 10 Applicants (29370)	<input type="checkbox"/> Full-time (29874)	Add a filter
<input type="radio"/> Past Week (9241)	<input type="checkbox"/> Easy Apply (331)	<input type="checkbox"/> Internship (707)	<input type="checkbox"/> Copenhagen (8793)
<input type="radio"/> Past Month (27492)	<input type="checkbox"/> In Your Network (1389)	<input type="checkbox"/> Part-time (554)	<input type="checkbox"/> Aalborg (857)
<input checked="" type="radio"/> Any Time (31282)		<input type="checkbox"/> Contract (255)	<input type="checkbox"/> Aarhus N (244)
		<input type="checkbox"/> Temporary (74)	<input type="checkbox"/> Melby (142)
		<input type="checkbox"/> Volunteer (42)	<input type="checkbox"/> Hedehusene (37)
		<input type="checkbox"/> Other (11)	

Company	Industry	Job Function	Experience Level
Add a filter	Add a filter	Add a filter	<input type="checkbox"/> Internship (1106)
<input type="checkbox"/> Danske Bank (112)	<input type="checkbox"/> Computer Software (4662)	<input type="checkbox"/> Information Technology (8233)	<input type="checkbox"/> Entry level (13060)
<input type="checkbox"/> IT-Universitetet i København (34)	<input type="checkbox"/> Financial Services (1983)	<input type="checkbox"/> Sales (4183)	<input type="checkbox"/> Associate (7569)
<input type="checkbox"/> DFDS (35)	<input type="checkbox"/> Higher Education (2384)	<input type="checkbox"/> Business Development (2641)	<input type="checkbox"/> Mid-Senior level (202)
<input type="checkbox"/> Mercedes-Benz Sverige (4)	<input type="checkbox"/> Information Technology and Services (5648)	<input type="checkbox"/> Engineering (2607)	<input type="checkbox"/> Director (849)
<input type="checkbox"/> Sygehus Lillebælt (32)	<input type="checkbox"/> Staffing and Recruiting (3916)	<input type="checkbox"/> Customer Service (1726)	<input type="checkbox"/> Executive (243)



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 - Power Saving (EUP) SIO & Controller
 - Transceiver and Buffer
 - SIO With Microcontroller (uSIO)
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- Environment Sensor and Glue Logic IC
 - Environment Sensor and Fan Controller
 - Pure Logic IC
 - Performance Controller
 - Real Time Clock
- Power Management and ACPI

F81216A

General Description

The F81216AD mainly provides 3 pure UART ports and one UART+ IR port through LPC. Each UART includes 16-byte send/receive FIFO, a programmable baud rate generator, and interrupt system. One watchdog timer is provided for system controlling and the time interval can be programmed by setting pin. One clock 24/48MHz input is necessary, and default is 24MHz. Powered by 3.48pin LQFP package (7mm x 7mm).

Features Package Attachments

- Supports LPC interface

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USB 3380

USB Controllers USB 3380

OVERVIEW SPECIFICATIONS DOCUMENTATION



The USB 3380 is a PCI Express Gen 2 to USB 3.0 SuperSpeed Peripheral. It features a single PCI Express Gen 2 x1 port and one USB 3.0 SuperSpeed client port. The bandwidth at 5 GT/s between the PCI Express Gen 2 bus and the USB controller can easily add a USB 3.0 client port to an existing PCI Express function (endpoint) to a USB 3.0 product. The USB Express port can be one x1 upstream port or one x1 downstream port. The configurations to achieve the maximum performance of the product. The buffered, 100 MHz HCSL output clocks, for the downstream port when saving BOM cost by eliminating the need for extra clock buffer(s).

[PDF] [USB3380 Product Overview](#)

Lifecycle Status

Not Recommended for New Design

Replacement Part

[Contact Sales »](#)

Access to documentation

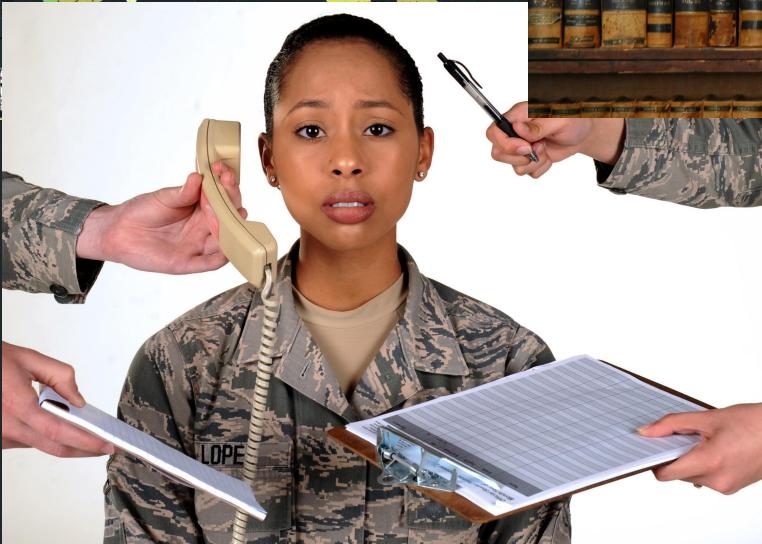


Influence in APIs



Drawbacks

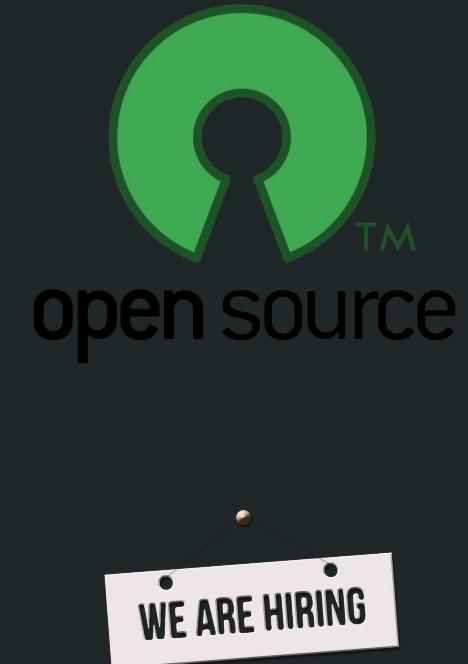
STANDARD TIME ZONES OF THE WORLD



CONTRIBUTE!

Our experience

- **Linux Kernel:** 200+ patches. Including a 9+ year old bugfix.
- **U-boot:** 48 patches. Maintainers of Virtex PowerPC boards.
- **Yocto project:** 60+patches. Supporting organization of the project.
- **v4l-utils/libv4l2:** 10 patches.
- **Gstreamer:** 5 patches accepted.
- **Coreboot:** 6 patches accepted.
- **Flashrom:** Support for the first board with EEPROM memory.
- **Gerbil, Clpeak, Video Lan Client, neard...**



Can small companies upstream?

The story of an Industrial Camera manufacturer.

Ricardo Ribalda, PhD