

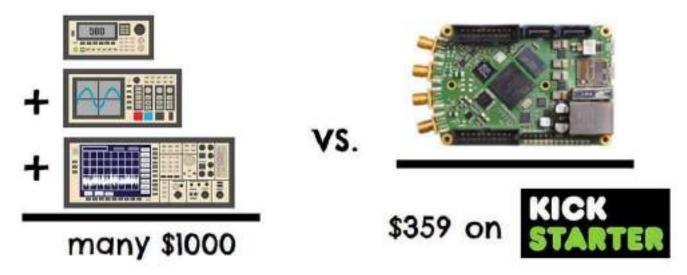
Red Pitaya

Borut Baričevič, Rok Hrovatin Libera Workshop 2014





Red Pitaya is an **open source** measurement and control tool replacing many expensive laboratory instruments at a surprising price tag.

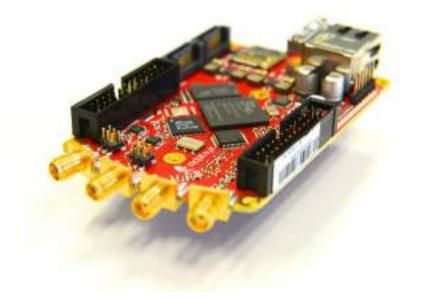


Red Pitaya benefits



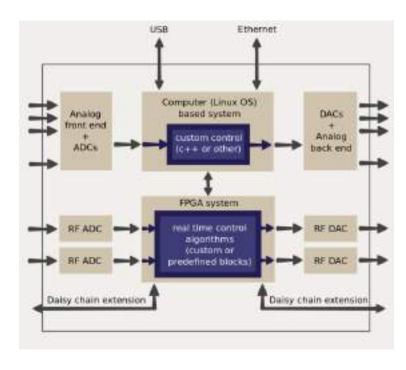
Red Pitaya, a revolutionary open source measurement instrument that brings particle accelerator technologies to everyone.

- compact
- open source
- network attached
- reconfigurable
- easy to use
- Internet browser applications



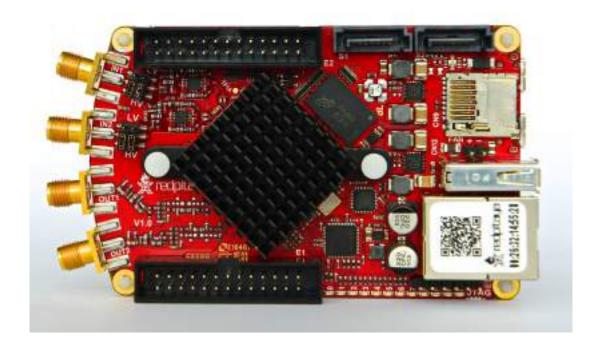






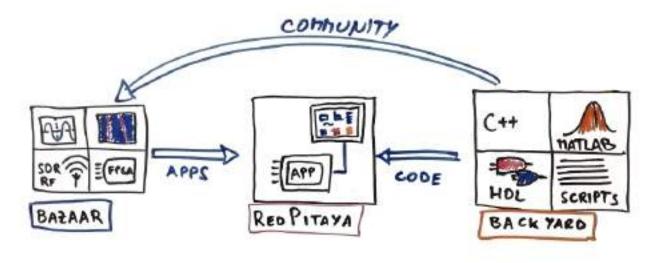












Bazaar: An application marketplace where open-source applications are available within a single click for immediate experience and use.

Backyard: A place where people learn about the use, discuss the ideas and further develop applications.

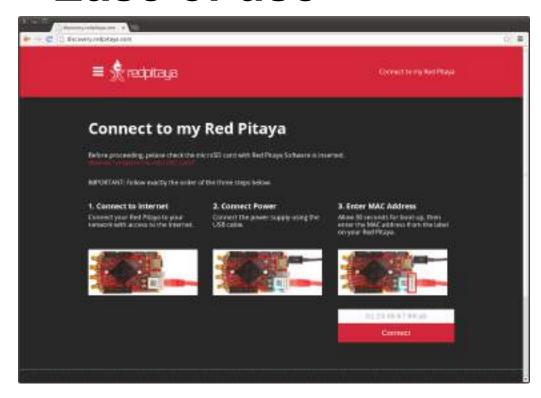




Ease of use



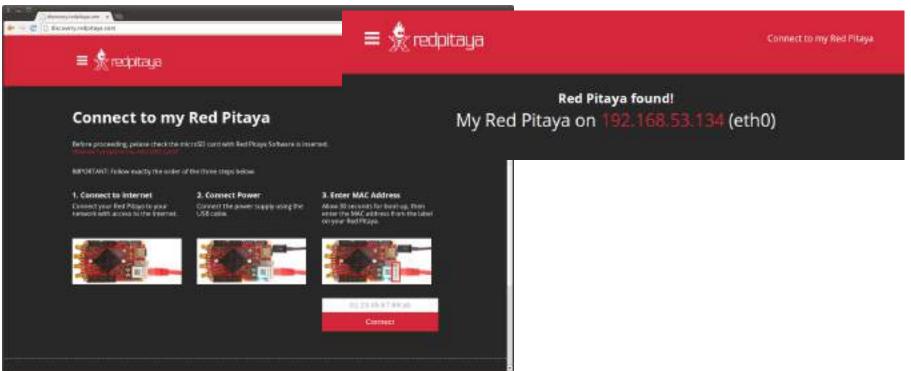
Ease of use





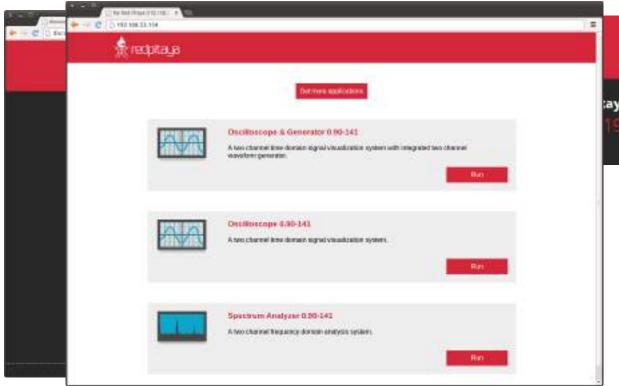












Connect to my Red Pitaya ;aya found! 192.168.53:134 (eth0)







Need for participation





particle accelerators

BPMs, synchronization, BBB, LLRF, ...



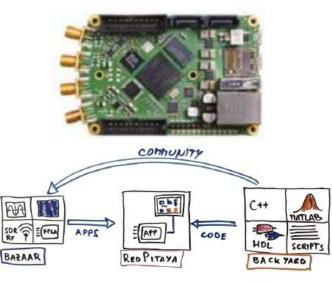
hobbyists, education, industry, labs

oscilloscope, spectrum analyser, controller, arbitrary signal generator, frequency response monitor, SDR, logic analyzer, impedance meter, 6 channel polygraph, full parametric equalizer, Hi-Fi effect for musical instruments, motor feedback and control, crash test dummy measurement tool, earthquake & tsunami analyser, control system analyser, ... 50/5

Who contributed first?











Who contributed next?





A mentpiltarya



Kickstarter: Over 200 direct commts and suggestions

Xmas edition testers comments "from the side"

. .

IBIC 2013

Who else?



Cooling the Rad Phays.

Date Recording - Folkings - Date: • Farmer

Red Playe avalability

cover . Trianings . over . Loover

Great Group

Tourstance - (20)(430) - Dobe - Zallaet

Crossish between "water Al" channels

CARROLL - SOCIETAGE - DOM: - Farmer

Agesire function call from LabView example.

Guidante - Silmonto - Junes - Janearo

Can we get a much larger exemple buffer for the ecope?

mades - Freemage - Tyde - careen

Signal generator/soquisition with ONU Octave

Sent of Southern of South of Southern

Wast inspiritual new appe

Andretranse + 1.mortrago + 2 cms + 2 prisest

Over experiences with Red Plays

menuolini i i nomingo i i figni i Lansseni

My first Hallab loop back test-acrost works!

None - represent - June - Januari

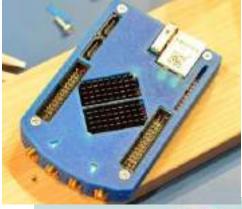
Very well done.

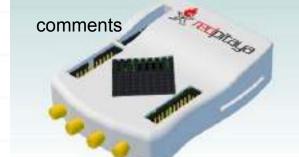
merapin - I nom apr - I con - Lamen

Red Plays web page

Recition - I mortilage - Dieta - Campres

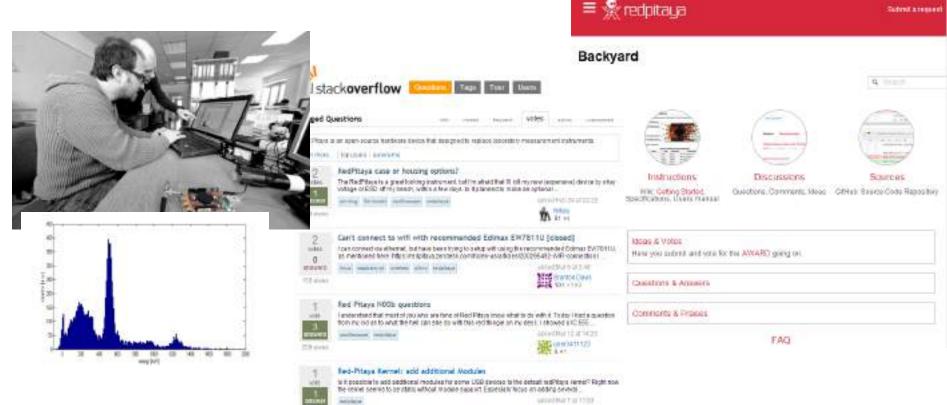






Sharing





and sharing





Xilinx and Red Pitaya is Tootie Fruity

by Luke Miller

Published on 04-03-2014 10:00 AM

Zynq-based, open-source Red Pitaya instrumentation platform jumps from Kickstarter to mass market

by E XXIVX sleibso 02-19-2014 02:33 PM - edited 03-19-2014 02:35 PM

Zynq-based Red Pitaya Open Instrumentation Platform captured under glass at Embedded World



Red Pitaya Bears Fruit and it Tastes Good



Posted by Andrew Back on Fri. Mar 21 2014 09:58:00

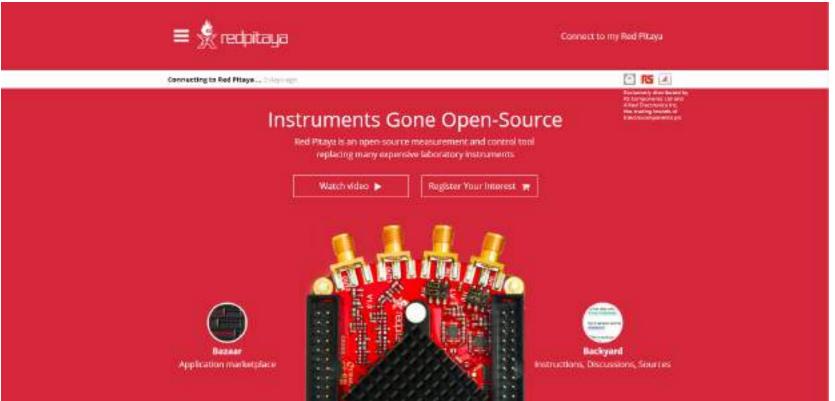
The "How?"











Wanted (see blog)



THE RED PITAYA AWARD

Login to our Backyard's *Ideas & Votes* page and propose the

best, the most interesting, and the coolest application that could

be implemented on Red Pitaya.

This enters you into our competition.

April 1, 2014

RESULT: 50 / 5



News



Communicated weekly, mostly through Blog & Stories (also the Award).

Use of Red Pitaya for broad spectrum of applications - need for various development levels.

As roots were initially based here, the complexity fits the accelerator community.



Thanks.