



Swiss Army Knife  
**for Engineers**

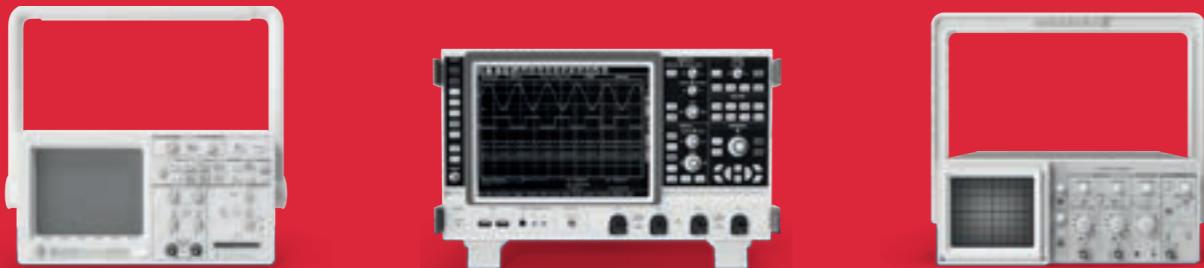
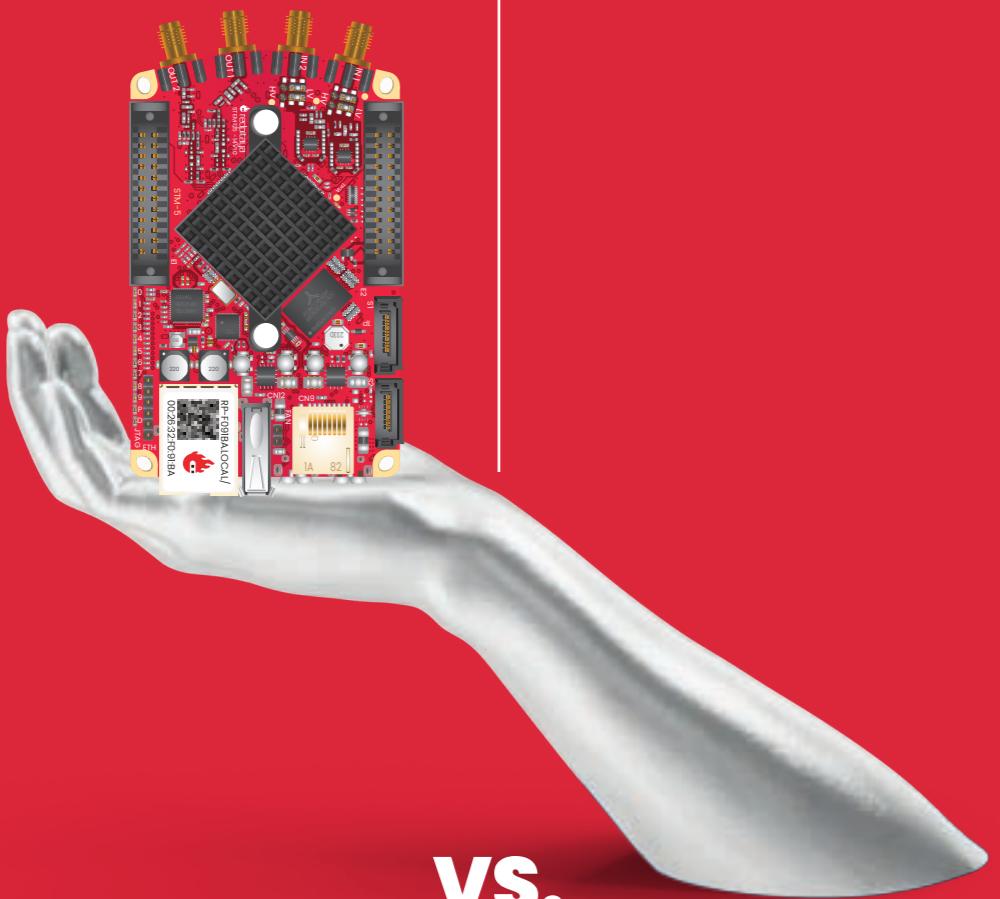


# GEN 2

Built for Industry,  
Engineered for Innovation

# REPLACE YOUR LAB INSTRUMENTS

One open-source platform that will replace bulky and expensive instruments?  
Meet Red Pitaya, and step on this revolutionary road!



And many more!

## THE RED PITAYA ECOSYSTEM

### HARDWARE

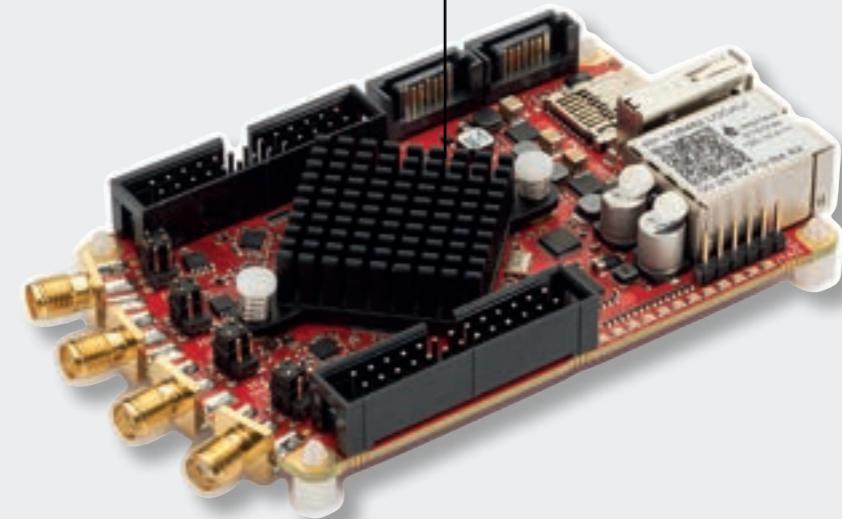
- flexible sample rate, resolution
- flexible number of channels
- cost optimized variants
- easy to integrate as OEM

### SOFTWARE

- open-source
- C APIs, Python, LabVIEW, MATLAB
- WEB UI
- community projects & applications

### INSTRUMENTS

- oscilloscope
- spectrum analyzer
- signal generator
- lock-in amplifiers
- PID controller
- sweep generators
- digital mixers
- tunable bandpass filters



# Applications for your **RED PITAYA**

All the applications are web-based, FREE of charge and available when purchasing a board.



## Oscilloscope & Signal generator



## LCR meter



## Logic analyzer



## Spectrum analyzer



## Bode analyzer



## Vector network analyzer

# An intuitive **USER INTERFACE**

Red Pitaya uses a web interface and all the software is running on the board, there's no need to install any proprietary software to get started. All you have to do is open your web browser, connect to the board and select which application you want to run.



# WORKS

# WITH



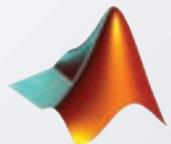
## Remote control

Your Red Pitaya board can be controlled remotely over LAN or wireless.



### Python

Control your Red Pitaya with Python – the most popular script language used by researchers working on the fast development of any engineering application that requires testing, measurement, control & signal processing



### MATLAB

Control your Red Pitaya with MATLAB – the easiest and most productive software environment for engineers and scientists. The perfect combination to speed up your research, prototyping and testing.



### LabVIEW

Control your Red Pitaya with LabVIEW – software designed for the fast development of any engineering application that requires testing, measurement, or control.

## Programming

For those who would like to program their own applications, we have provided C and Python APIs that enable super easy access to all Red Pitaya features, while more advanced users can also create and run their own FPGA logic.



### Jupyter Notebook / Python

Jupyter Notebook enables you to execute Python code and control Red Pitaya hardware features, visualize data and add explanatory text or write interactive documents directly in a web browser Jupyter Notebook Python editor.



### C API

A list of built-in C code functions (APIs) provides full control over the Red Pitaya board (signal generation & acquisition, digital I/O control, communication: I2C, SPI, UART, and others).



### FPGA

Examples of Red Pitaya FPGA code include complete control logic over signal acquisition, generation and more, along with all image build instructions and register map documentation. The code is free & available on Github.

## Product **HIGHLIGHTS**



### **STEMlab 125-14**

STEMlab 125-14 is our most versatile and popular product, providing perfect value for money.

More variants available:

Zynq 7020 Low Noise   External Clock

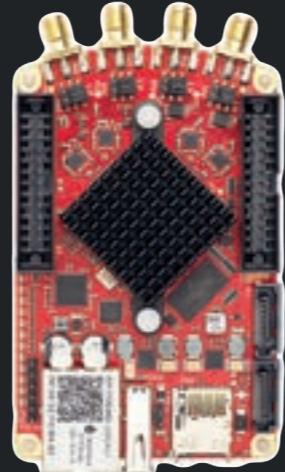
ISO17025   Low Noise   OEM



### **SIGNALlab 250-12**

SIGNALlab 250-12 is the most sophisticated Red Pitaya product, built for more demanding industrial applications and research.

OEM



### **STEMlab 125-14 4-Input**

STEMlab 125-14 4-Input has four inputs at 125 MS/s 14-bit Internal/external clock selector available

Performance improvements  
(less noise & crosstalk)  
FPGA AMD Xilinx Zynq 7020 SoC



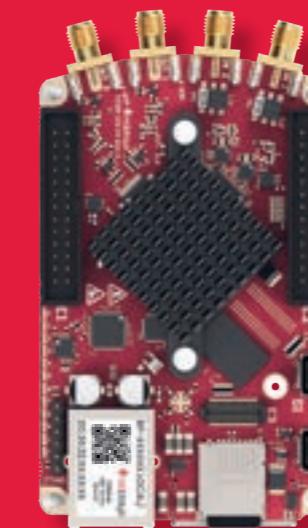
### **SDRlab 122-16**

SDRlab 122-16 was developed specifically for software-defined radio and more demanding RF applications.

External Clock



### **STEMlab 125-14 Gen 2**



### **STEMlab 125-14 Pro Gen 2**



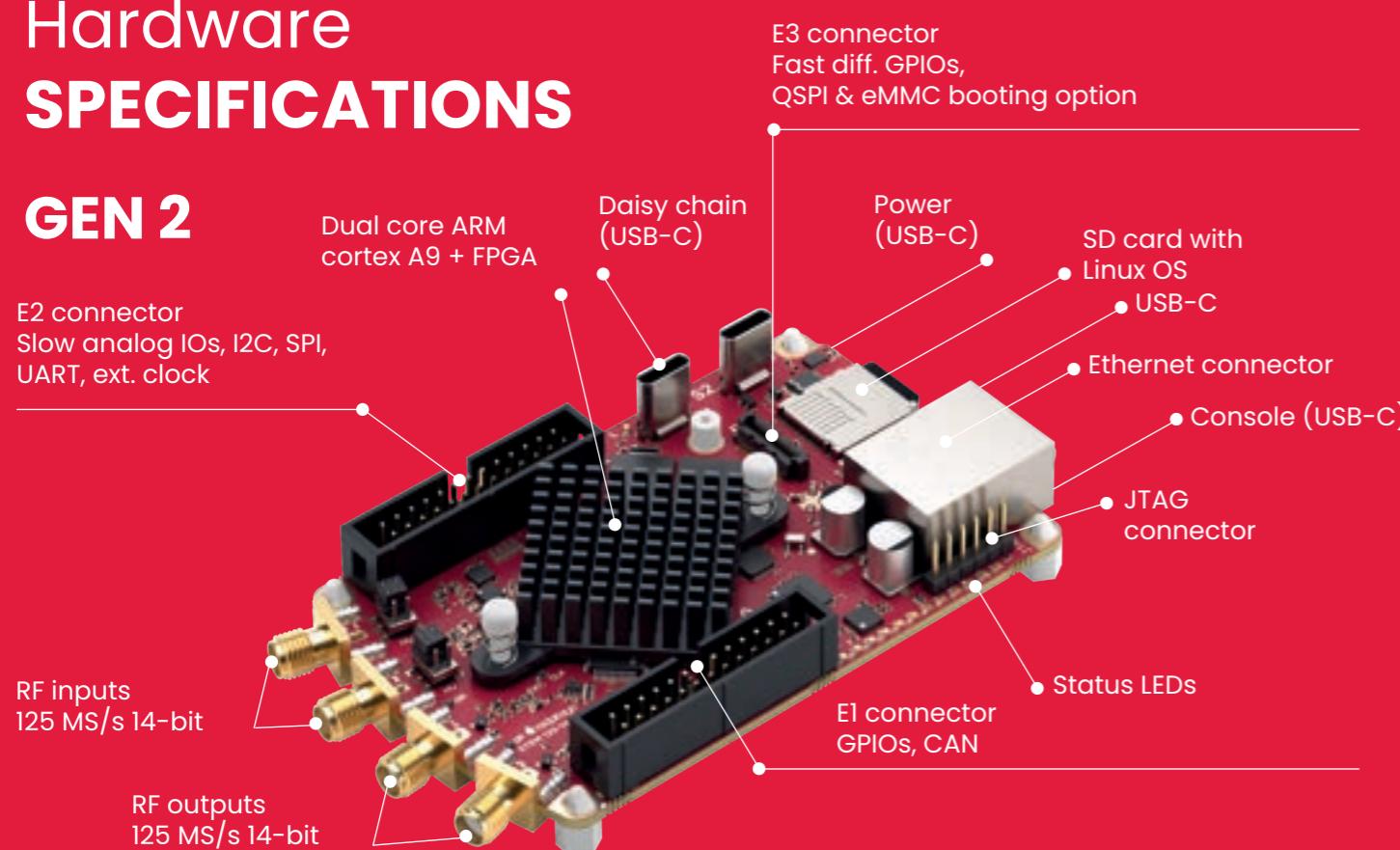
### **STEMlab 125-14 Pro Z7020 Gen 2**

FOR GEN 2

GET  
READY

# Hardware SPECIFICATIONS

## GEN 2



## STEMlab 125-14 Gen 2

The next-generation STEMlab 125-14, now with:

- **Enhanced RF input performance** – Reduced noise, cross-talk, and distortions
- **Improved output voltage range** –  $\pm 1$  V at  $50 \Omega$ ,  $\pm 2$  V at high impedance
- **USB-C connectors** – Modern, reliable connectivity
- **Same compact design** – Maintains connector positions for easy integration
- **100% software & FPGA backward compatibility** – Seamless upgrade path



### Users

- Researchers and students in engineering, physics, and applied sciences
- Makers, electronics enthusiasts, and DIY project builders
- Teachers and trainers in technical fields, who can use it for demonstrations and practical labs



### Applications

- A teaching tool for electrical engineering and programming
- Signal acquisition, generation and processing
- Embedded systems development



## STEMlab 125-14 Pro Gen 2

Industry-ready and built for demanding applications, the Pro Gen 2 offers:

- **E3 connector**, providing more robust booting options (QSPI, eMMC)
- **Onboard external clock selector**
- **Multi-channel synchronization**



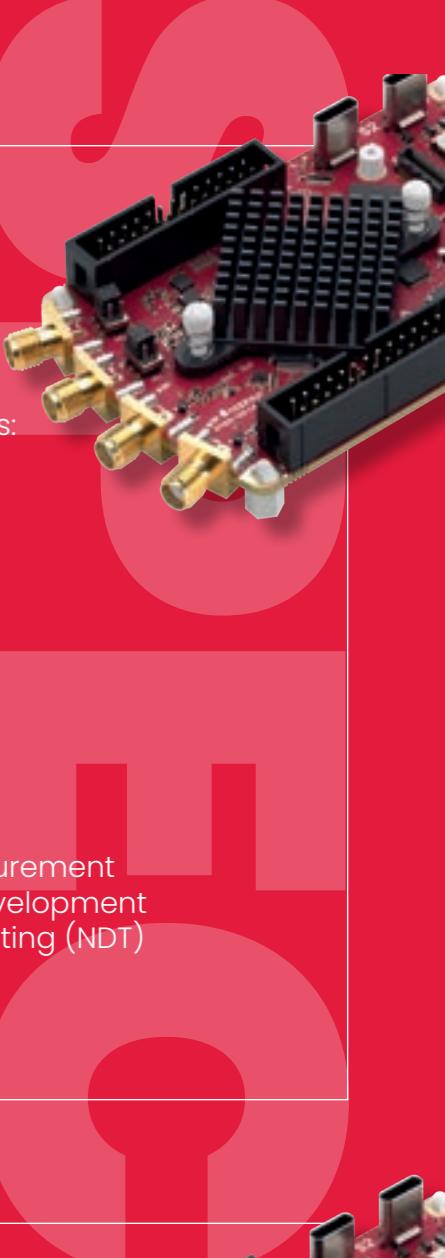
### Users

- Industry professionals
- Engineers and technicians in manufacturing and quality assurance
- Researchers



### Applications

- Testing and measurement
- Radar systems development
- Nondestructive testing (NDT)
- OEM solutions



## STEMlab 125-14 Pro Z7020 Gen 2

Built for the most demanding industrial applications, now with:

- **Two times more DDR** (1 GB) – Longer capture times
- **Three times bigger FPGA** – Z7020
- **Six more GPIOs on E1**
- **Eight additional high-speed differential pairs on E3**



### Users

- Industry professionals
- Scientific researchers



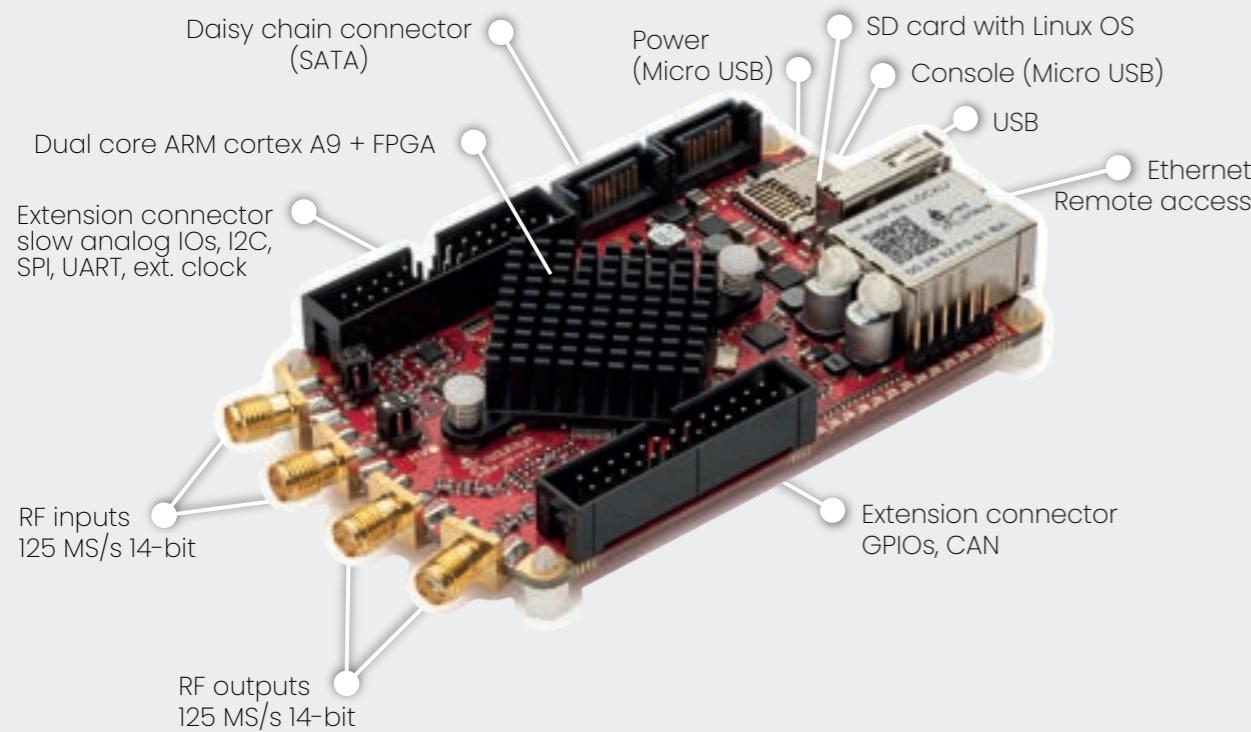
### Applications

- Quantum computing experiments
- Photonic applications
- Medical imaging technologies
- Space applications
- Advanced OEM solutions

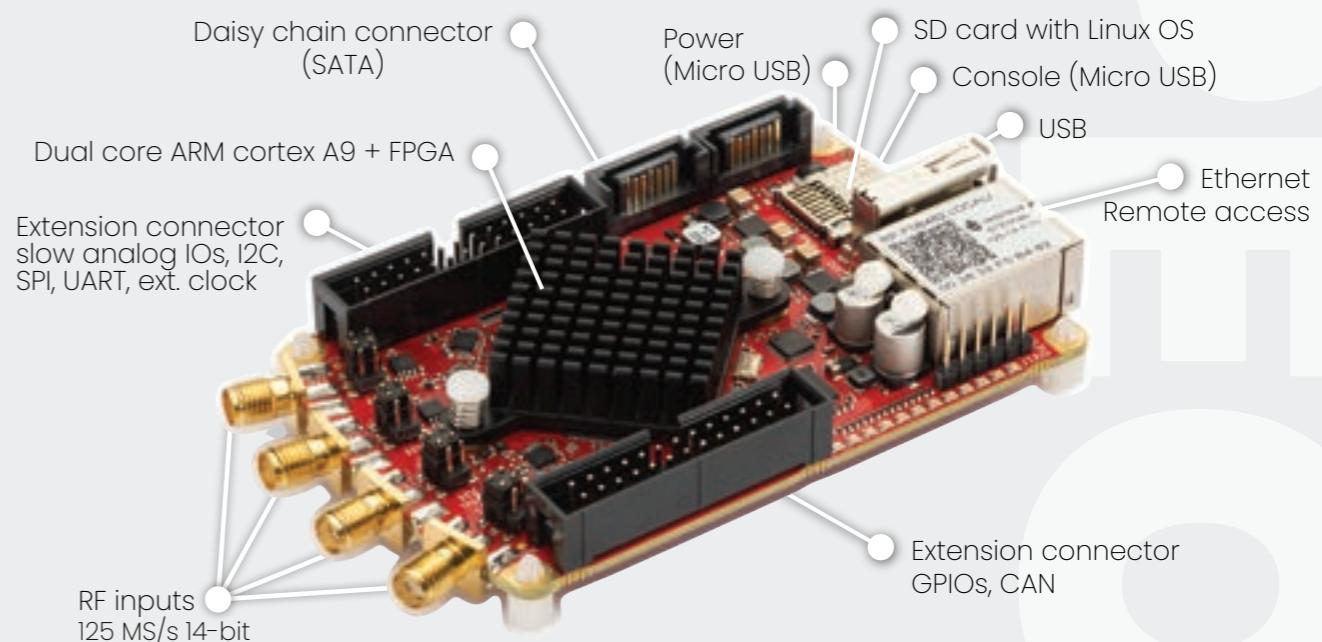


# Hardware SPECIFICATIONS

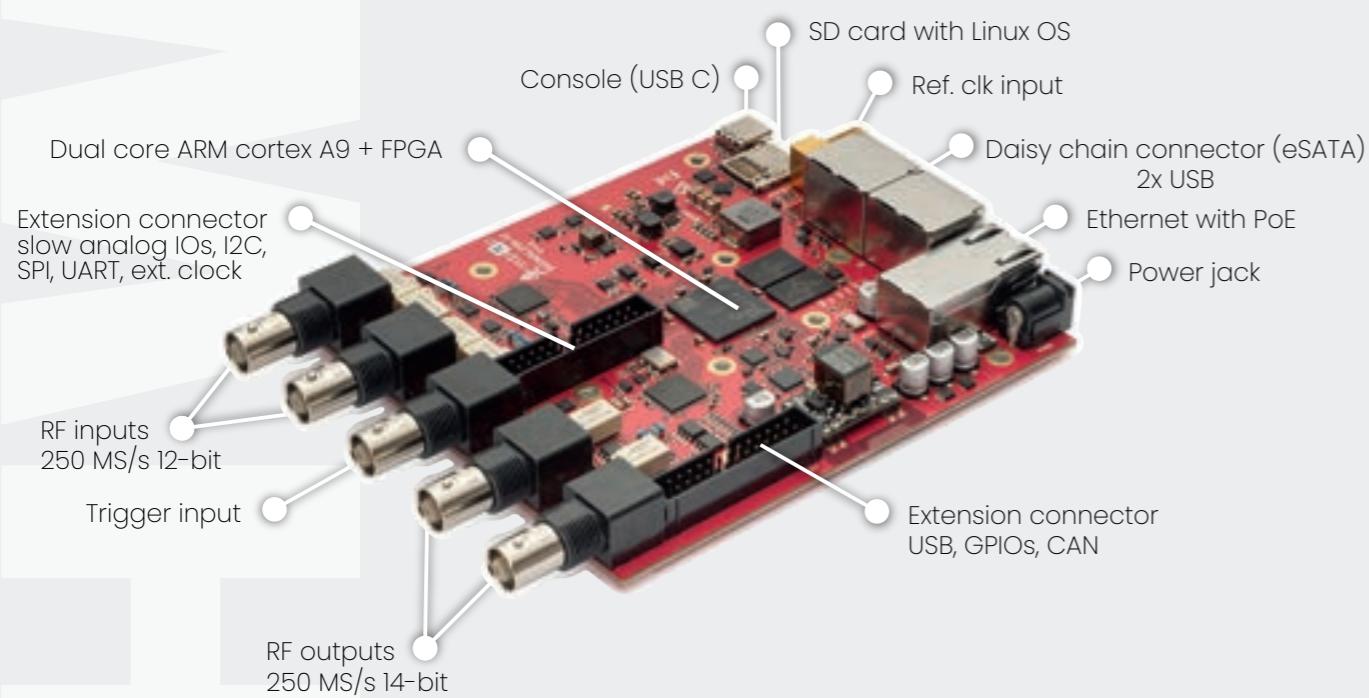
## STEMlab 125-14



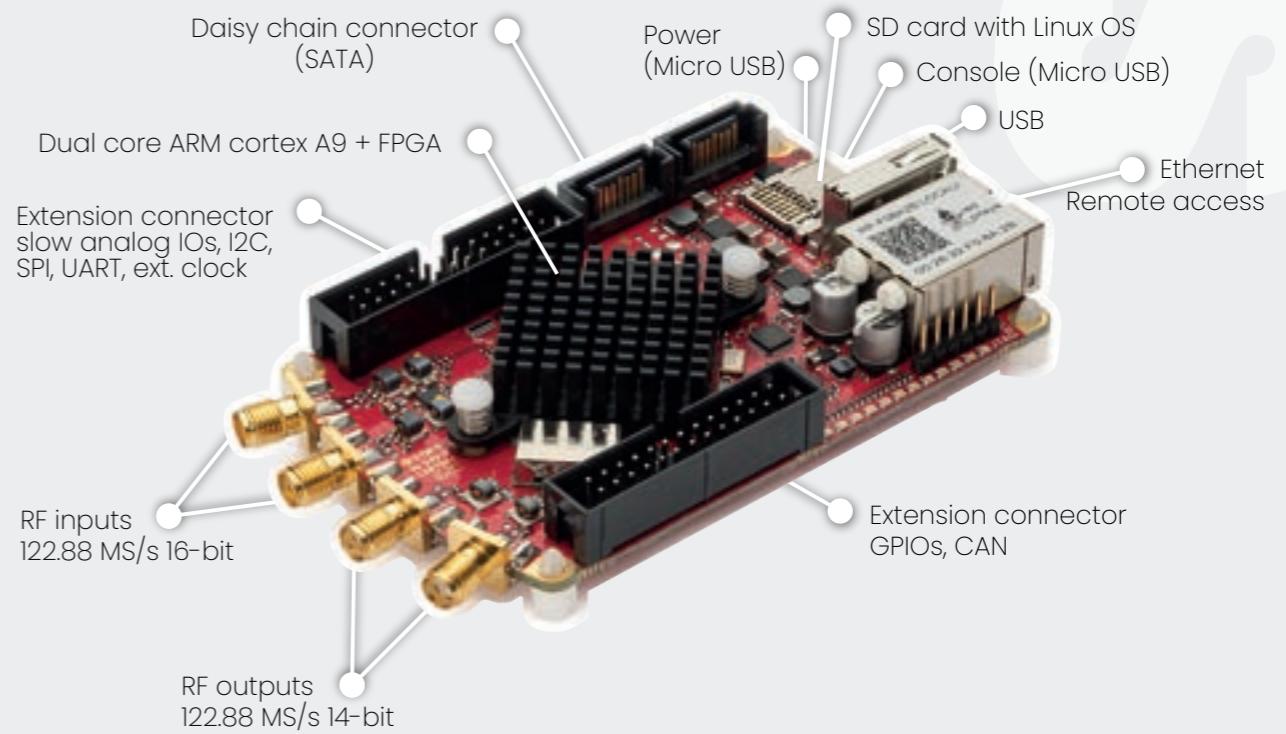
## STEMlab 125-14 4-Input



## SIGNALlab 250-12



## SDRlab 122-16



# Compare our products

**STEMlab 125-14**  
**STEMlab 125-14 LN**  
**STEMlab 125-14 ext. clk**  
**STEMlab 125-14 X-Channel System**

	<b>STEMlab 125-14</b>	<b>STEMlab 125-14 LN</b>	<b>STEMlab 125-14 ext. clk</b>	<b>STEMlab 125-14 X-Channel System</b>	<b>STEMlab 125-14 Z7020 LN</b>
<b>BASIC</b>					
Processor	DUAL CORE ARM CORTEX A9	DUAL CORE ARM CORTEX A9			
FPGA	FPGA AMD Xilinx Zynq 7010 SoC	FPGA AMD Xilinx Zynq 7020 SoC			
RAM	512 MB (4 Gb)	512 MB (4 Gb)			
System memory	Micro SD up to 32 GB	Micro SD up to 32 GB			
Console connection	Micro USB	Micro USB			
Power connector	Micro USB	Micro USB			
Power consumption	5 V, 2 A max	5 V, 2 A max			
<b>CONNECTIVITY</b>					
Ethernet	1 Gbit	1 Gbit			
USB	USB 2.0	USB 2.0			
Wi-Fi	Requires Wi-Fi dongle	Requires Wi-Fi dongle			
<b>RF INPUTS</b>					
RF input channels	2	2			
Sample rate	125 MS/s	125 MS/s			
ADC resolution	14 bit	14 bit			
Input impedance	1 MΩ / 10 pF	1 MΩ / 10 pF			
Full scale voltage range	±1 V (LV) and ±20 V (HV)	±1 V (LV) and ±20 V (HV)			
Input coupling	DC	DC			
Absolute max. input voltage	±6 V (LV) and ±30 V (HV)	±6 V (LV) and ±30 V (HV)			
Input ESD protection	Yes	Yes			
Overload protection	Protection diodes	Protection diodes			
Bandwidth	DC - 60 MHz	DC - 60 MHz			
<b>RF OUTPUTS</b>					
RF output channels	2	2			
Sample rate	125 MS/s	125 MS/s			
DAC resolution	14 bit	14 bit			
Load impedance	50 Ω	50 Ω			
Voltage range	±1 V	±1 V			
Short circuit protection	Yes	Yes			
Connector type	SMA	SMA			
Output slew rate	2 V / 10 ns	2 V / 10 ns			
Bandwidth	DC - 60 MHz	DC - 60 MHz			
<b>EXTENSION CONNECTOR</b>					
Digital IOs	16	22			
Analog inputs	4	4			
Analog inputs voltage range	0 - 3.5 V	0 - 3.5 V			
Sample rate	100 kS/s	100 kS/s			
Resolution	12 bit	12 bit			
Analog outputs	4	4			
Analog outputs voltage range	0 - 1.8 V	0 - 1.8 V			
Communication interfaces	I2C, SPI, UART, CAN	I2C, SPI, UART, CAN			
Available voltages	+5 V, +3.3 V, -4 V	+5 V, +3.3 V, -4 V			
External ADC clock	Yes	Yes			
<b>SYNCHRONIZATION</b>					
Trigger input	Through extension connector	Through extension connector			
Daisy chain connection	SATA connectors (up to 500 Mb/s)	SATA connectors (up to 500 Mb/s)			
Ref. clock input	N/A	N/A			

	<b>STEMlab 125-14 4-Input</b>	<b>SDRlab 122-16</b>	<b>SDRlab 122-16 ext. clk</b>	<b>SIGNALab 250-12</b>
Dual core ARM Cortex A9	Dual core ARM Cortex A9	Dual core ARM Cortex A9	Dual core ARM Cortex A9	Dual core ARM Cortex A9
FPGA AMD Xilinx Zynq 7020 SoC	FPGA AMD Xilinx Zynq 7020 SoC	FPGA AMD Xilinx Zynq 7020 SoC	FPGA Xilinx Zynq 7020 SOC	
512 MB (4 Gb)	512 MB (4 Gb)	512 MB (4 Gb)	1 GB (8 Gb)	
Micro SD up to 32 GB	Micro SD up to 32 GB	Micro SD up to 32 GB	Micro SD up to 32 GB	
Micro USB	Micro USB	Micro USB	USB-C	
Micro USB	Micro USB	Micro USB	Power jack, RJ45 (PoE version only)	
5 V, 2 A max	5 V, 2 A max	5 V, 2 A max	24 V, 0.5 A max	
1 Gbit	1 Gbit	1 Gbit	1 Gbit	
USB 2.0	USB 2.0	USB 2.0	2x USB 2.0	
Requires Wi-Fi dongle	Requires Wi-Fi dongle	Requires Wi-Fi dongle	Requires Wi-Fi dongle	
4	2	2	2	
125 MS/s	122.88 MS/s	250 MS/s		
14 bit	16 bit	12 bit		
1 MΩ / 10 pF	50 Ω	1 MΩ		
±1 V (LV) and ±20 V (HV)	0.5 Vpp / -2 dBm	±1 V / ±20 V (software selectable)		
DC	AC	AC / DC (software selectable)		
±6 V (LV) and ±30 V (HV)	50 VDC / 0.5 Vpp VAC	±6 V (LV) and ±30 V (HV)		
Yes	Yes	Yes		
Protection diodes	DC voltage protection	Protection diodes		
DC - 60 MHz	300 kHz - 550 MHz	DC - 60 MHz		
N/A	2	2		
N/A	122.88 MS/s	250 MS/s		
N/A	14 bit	14 bit		
N/A	50 Ω	50 Ω		
N/A	0.5 Vpp / -2 dBm	±2 V / ±10 V Hi-Z (software selectable)		
N/A	N/A, RF transformer & AC-coupled	Yes		
N/A	SMA	BNC		
N/A	N/A	10 V / 17 ns		
N/A	300 kHz - 60 MHz	DC - 60 MHz		
22	22	19		
4	4	4		
0 - 3.5 V	0 - 3.5 V	0 - 3.5 V		
100 kS/s	100 kS/s	100 kS/s		
12 bit	12 bit	12 bit		
4	4	4		
0 - 1.8 V	0 - 1.8 V	0 - 1.8 V		
I2C, SPI, UART, CAN	I2C, SPI, UART, CAN	I2C, SPI, UART, CAN	I2C, SPI, UART, USB, CAN	
+5 V, +3.3 V, -4 V	+5 V, +3.3 V, -4 V	+5 V, +3.3 V, -4 V	+5 V, +3.3 V, -4 V	
Yes	Yes	Yes		
Through extension connector	Through extension connector	Through BNC connector		
SATA connectors (up to 500 Mb/s)	SATA connectors (up to 500 Mb/s)	SATA connectors (up to 500 Mb/s)	SATA connectors (up to 500 Mb/s)	
N/A	N/A	Through SMA connector		

STEMlab 125-14 (Gen 1)		STEMlab 125-14 Gen 2	
<b>BASIC</b>			
Processor	DUAL CORE ARM CORTEX A9	DUAL CORE ARM CORTEX A9	
FPGA	FPGA Xilinx Zynq 7010 SoC	FPGA Xilinx Zynq 7010 SoC	
RAM	512 MB (4 Gb)	512 MB (4 Gb)	
System memory	Micro SD up to 32 GB	Micro SD up to 32 GB	
Console & power connection	Micro USB	USB-C	
Power consumption	5 V, 2 A max	5 V, 3 A max	
<b>CONNECTIVITY</b>			
Ethernet	1Gbit	1Gbit	
USB	USB 2.0	USB-C 2.0	
Wi-Fi	Requires Wi-Fi dongle	Requires Wi-Fi dongle	
<b>RF INPUTS</b>			
RF input channels	2	2	
Sample rate	125 MS/s	125 MS/s	
ADC resolution	14 bit	14 bit	
Input impedance	1 MΩ / 10 pF	1 MΩ / 10 pF	
Full scale voltage range	±1 V (LV) and ±20 V (HV)	±1 V (LV) and ±20 V (HV)	
Input coupling	DC	DC	
Absolute max. input voltage	±6 V (LV) and ±30 V (HV)	±6 V (LV) and ±30 V (HV)	
Bandwidth	DC - 60 MHz	DC - 60 MHz	
<b>RF OUTPUTS</b>			
RF output channels	2	2	
Sample rate	125 MS/s	125 MS/s	
DAC resolution	14 bit	14 bit	
Load impedance	50 Ω	50 Ω / Hi-Z	
Voltage range	±1 V	±1 V @ 50 Ω and ±2 V @ Hi-Z	
Short circuit protection	Yes	Yes	
Output slew rate	2 V / 10 ns	2 V / 10 ns	
Bandwidth	DC - 60 MHz	DC - 60 MHz	
<b>EXTENSION CONNECTOR</b>			
Digital GPIOs	16	16	
Digital voltage levels	3.3 V	3.3 V	
High-speed diff. pairs (E3)	N/A	N/A	
Analog inputs	4	4	
Analog input voltage range	0 - 3.5 V	0 - 3.5 V	
Analog input resolution	12 bit	12 bit	
Analog input sample rate	100 kS/s	100 kS/s	
Analog outputs	4	4	
Analog outputs voltage range	0 - 1.8 V	0 - 1.8 V	
Analog output resolution	8 bit	8 bit	
Communication interfaces	I2C, SPI, UART, CAN	I2C, SPI, UART, CAN	
Available voltages	+5 V, +3V3, -4 V	±5 V, +3V3	
External ADC clock	Ext. clock models only	No	
E3 connector	N/A	No	
<b>SYNCHRONIZATION</b>			
External trigger input	E1 connector (DIO0_P)	E1 connector (DIO0_P)	
Trigger output	E1 connector (DIO0_N)	E1 connector (DIO0_N)	
Daisy chain connection	SATA connectors (up to 500 Mb/s)	N/A	
<b>BOOT OPTIONS</b>			
SD card	Yes	Yes	
QSPI	Not populated	N/A	
eMMC	N/A	N/A	

STEMlab 125-14 Pro Gen 2		STEMlab 125-14 Pro Z7020 Gen 2	
DUAL CORE ARM CORTEX A9			
FPGA Xilinx Zynq 7010 SoC	FPGA Xilinx Zynq 7010 SoC	FPGA Xilinx Zynq 7020 SoC	FPGA Xilinx Zynq 7020 SoC
512 MB (4 Gb)	512 MB (4 Gb)	1 GB (8 Gb)	1 GB (8 Gb)
Micro SD up to 32 GB			
USB-C	USB-C	USB-C	USB-C
5 V, 3 A max			
1Gbit	1Gbit	1Gbit	1Gbit
USB-C 2.0	USB-C 2.0	USB-C 2.0	USB-C 2.0
Requires Wi-Fi dongle	Requires Wi-Fi dongle	Requires Wi-Fi dongle	Requires Wi-Fi dongle
2	2	2	2
125 MS/s	125 MS/s	125 MS/s	125 MS/s
14 bit	14 bit	14 bit	14 bit
1 MΩ / 10 pF			
±1 V (LV) and ±20 V (HV)			
DC	DC	DC	DC
±6 V (LV) and ±30 V (HV)			
DC - 60 MHz			
2	2	2	2
125 MS/s	125 MS/s	125 MS/s	125 MS/s
14 bit	14 bit	14 bit	14 bit
50 Ω / Hi-Z			
±1 V @ 50 Ω and ±2 V @ Hi-Z	±1 V @ 50 Ω and ±2 V @ Hi-Z	±1 V @ 50 Ω and ±2 V @ Hi-Z	±1 V @ 50 Ω and ±2 V @ Hi-Z
Yes	Yes	Yes	Yes
2 V / 10 ns			
DC - 60 MHz			
16	22	16	22
3.3 V	3.3 V	3.3 V	3.3 V
N/A	8	N/A	8
4	4	4	4
0 - 3.5 V			
12 bit	12 bit	12 bit	12 bit
100 kS/s	100 kS/s	100 kS/s	100 kS/s
4	4	4	4
0 - 1.8 V			
8 bit	8 bit	8 bit	8 bit
I2C, SPI, UART, CAN			
±5 V, +3V3	±5 V, +3V3	±5 V, +3V3	±5 V, +3V3
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
E1 connector (DIO0_P)	E1 connector (DIO0_P)	E1 connector (DIO0_P)	E1 connector (DIO0_P)
E1 connector (DIO0_N)	E1 connector (DIO0_N)	E1 connector (DIO0_N)	E1 connector (DIO0_N)
S1 and S2 USB-C connectors (up to 500 Mb/s)	S1 and S2 USB-C connectors (up to 500 Mb/s)	S1 and S2 USB-C connectors (up to 500 Mb/s)	S1 and S2 USB-C connectors (up to 500 Mb/s)
Yes	Yes	Yes	Yes
E3 add-on module	E3 add-on module	E3 add-on module	E3 add-on module
E3 add-on module	E3 add-on module	E3 add-on module	E3 add-on module

# Love your Red Pitaya, **BUT IT DOESN'T QUITE MEET YOUR NEEDS?**

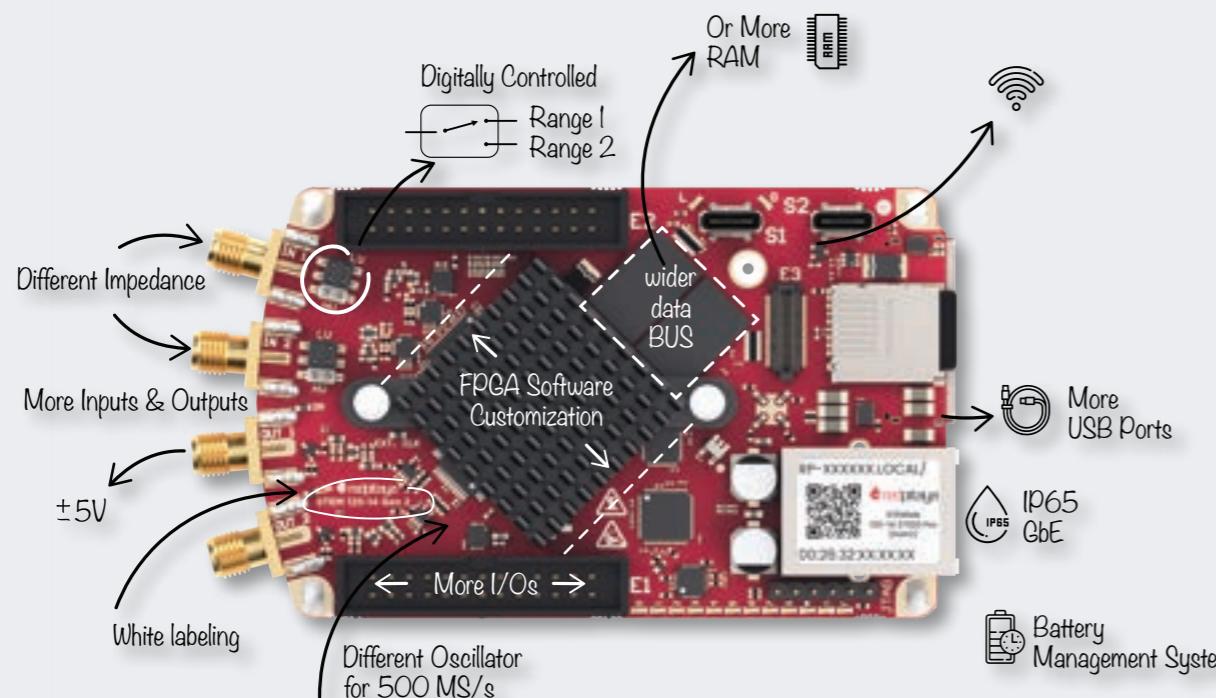
We can offer tailored solutions in hardware and software design, rapid prototyping, and product development to meet our clients' specific needs. Our record of success can be seen in collaborations with:

**SIEMENS**



**BOSCH**

+ many more!



# Expand your Red Pitaya **IN +1,500 WAYS!**

## Main Features

- Two mikroBUS™ sockets allow interfacing with more than 1,500 MIKROE Click boards™.
- High-performance clock and trigger synchronization between multiple Red Pitaya units or other external clock devices using U.FL patch cables.
- Powering Red Pitaya through an external power supply (12–24 V or via USB-C connector).

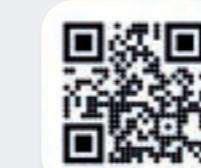
1500+ Click boards™

2 mikroBUS™ sockets

Red Pitaya Click Shield

Red Pitaya STEMlab 125-14

MIKROE



Explore MIKROE's library of Click Boards:  
// **SCAN THE QR CODE**

## What are Click boards™?

Click boards™ by MIKROE are small add-on boards designed to simplify the process of developing electronic projects, by providing a pre-built and tested module with specific functionality, including:

- communication,
- display,
- sensors,
- storage,
- motor control,
- mixed signals, and others.

## Red Pitaya for **PROTOTYPING, DEVELOPING & TESTING**

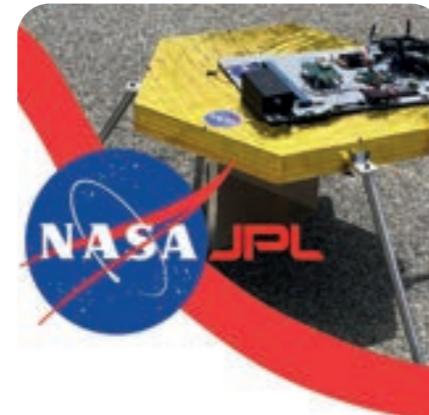
Red Pitaya is leading a revolution in the electronics industry, pioneering the move from closed, fixed-functionality instruments to multifunctional, open-source software-defined instruments that can satisfy a broad spectrum of customers in different market segments.



NASA

### **Prototyping Ground-Penetrating Radar for the Mars Science Helicopter**

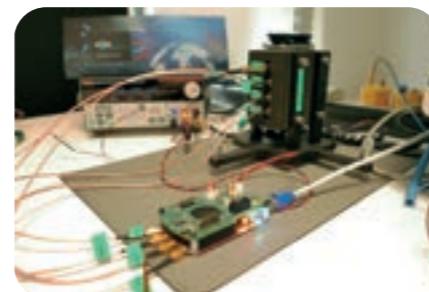
NASA's upcoming helicopter mission to Mars will feature an advanced ultra-wideband, frequency-modulated, continuous-wave ground-penetrating radar system. This cutting-edge radar technology was prototyped utilizing the innovative capabilities of the Red Pitaya SDRLab.



silicon Microgravity (SMG)

### **Red Pitaya used for development and testing of MEMS**

The UK company Silicon Microgravity (SMG) is a designer and producer of advanced sensors and accelerometers with proprietary MEMS resonant technology. SMG runs a wide range of tests for its MEMS in different setups, where reprogrammable units are a major requirement to eliminate the need for redesigning or creating additional custom hardware.



## Red Pitaya as an **OEM**

Utilizing Red Pitaya as an OEM has numerous advantages across various industries. Its open-source platform offers a multitude of benefits, including the ability to run custom code, a compact form factor, and affordability.

### **Red Pitaya device used as an OEM module in an optical frequency reference system**

In this project, the Red Pitaya serves as an OEM module within the optical frequency reference system. The Red Pitaya's adaptability and robust features make it an integral component in ensuring precise control and monitoring capabilities within the system.



LongPath Technologies

### **Laser monitoring of methane emissions with Red Pitaya**

LongPath Technologies uses a Red Pitaya STEMlab as a main fast feedback controller for frequency comb lasers. These Nobel Prize-winning, long-range laser networks provide the lowest cost detection and quantification of specific emission sources across large areas.



## A Full-Stack Teaching Platform for the ECE Curriculum: **FROM CLASSROOM TO CAREER**

Red Pitaya streamlines ECE education by providing a singular, adaptable platform that enables students to focus and deepen their understanding of core engineering principles without the distraction of moving between multiple tools.



### SMU

Southern Methodist University (SMU)

#### **Red Pitaya as a Lab Instrument**

As a software-defined instrument, a Red Pitaya is the perfect companion to students' first steps in electrical engineering. At Southern Methodist University (SMU) in Dallas, Red Pitaya devices were used in a signal processing course.

Explore SMU's signal processing teaching materials:  
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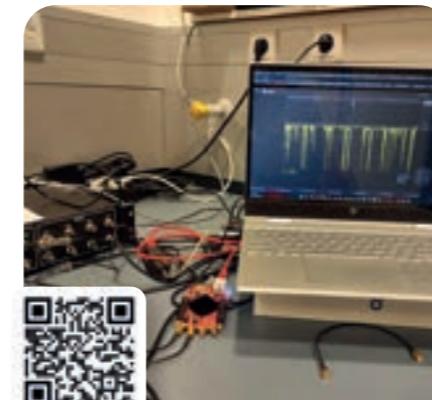


Red Pitaya library

#### **Student Projects with Red Pitaya**

Once the students have mastered the basics, they can start using a Red Pitaya device for developing their own projects, ranging from brain computer interfaces to PID controllers.

See our library of student projects:  
**// SCAN THE QR CODE**



Oklahoma State University

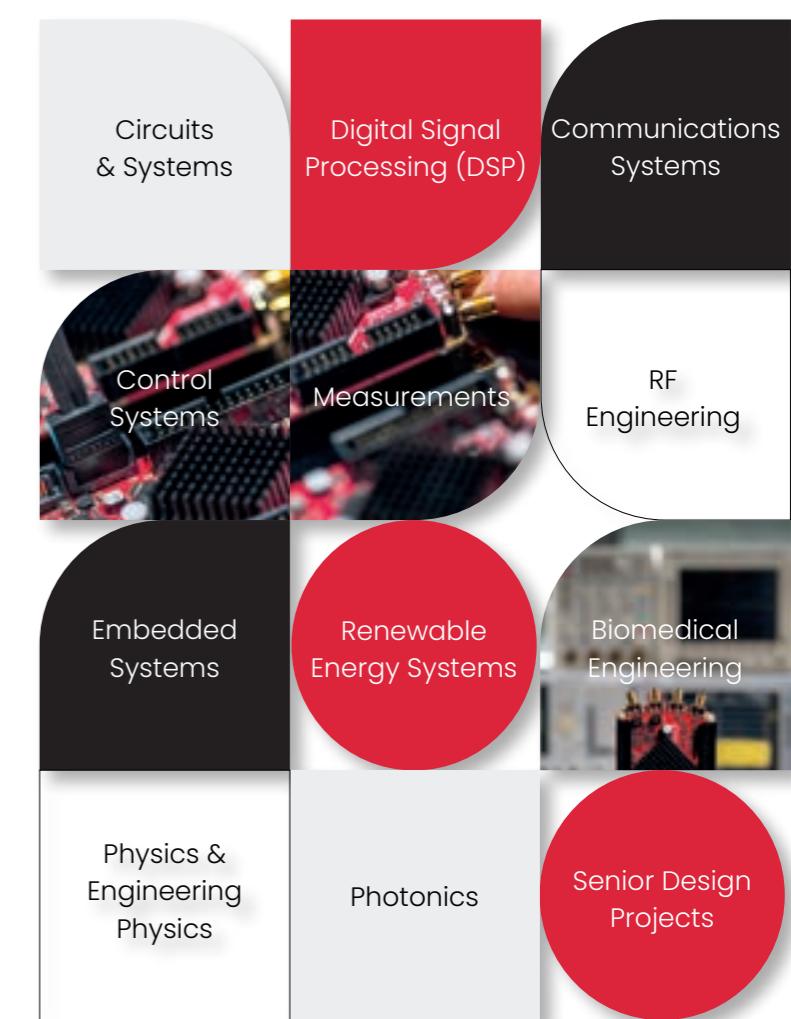
#### **Cutting-Edge Research Powered by Red Pitaya**

Red Pitaya is also used in large-scale research, such as this radiation detection project at Oklahoma State University.

Watch our interview with Professor Eric Benton:  
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#### **WHICH COURSES CAN RED PITAYA COVER?**



Trusted  
BY

Stanford

SIEMENS

BOSTON  
UNIVERSITY

DESY

Los Alamos  
NATIONAL LABORATORY



UK  
Science and  
Technology  
Facilities Council



BOSCH

ONERA  
THE FRENCH AEROSPACE LAB

Swabian Instruments



UC San Diego

ROHDE & SCHWARZ

LONGPATH  
TECHNOLOGIES

HIGH  
VOLT

Fraunhofer

ColdQuanta

VEEL  
institut

XANADU

CONSORZIO REX

ETH zürich

MIT

Nominations &  
**AWARDS**



FROST & SULLIVAN

ELECTRONICS  
INDUSTRY  
AWARDS  
2020

& More!

We're proud to be recognised with multiple awards in 2025 – including the prestigious **Learning Technologies Award** and our Gold Champion title at the **Engineering Matters Awards**, celebrating our commitment to innovation and sustainability.



## Six reasons to **BUY RED PITAYA**

### **P**ower of Open Source

Unlock endless customization with our fully open-source platform, encouraging user-driven innovation to meet any engineering need.

### **I**ntegrated Toolset

Elevate efficiency with our sleek device, engineered to replace a multitude of bulky lab instruments, freeing up valuable workspace.

### **T**op-Tier Processing

Experience the power of Xilinx Zynq SoC with our devices, blending an FPGA and ARM processor for unmatched real-time processing and flexibility.

### **A**ffordable Excellence

Enjoy advanced testing and prototyping without hidden fees or licenses. Our cost-efficient solution lowers financial barriers, enabling broader innovation.

### **Y**ours to Integrate

Red Pitaya replaces a vast range of test & measurement instruments & can be controlled by LabVIEW, MATLAB, Python or programmed to your own needs.

### **A**ccessible Remote Control

All Red Pitaya products are IoT devices that can perform remote and distributed measurements and provide real-time data.

## Great minds in different segments **TRUST RED PITAYA PRODUCTS**

### **1. Industry**

Companies in the automotive, aerospace, telecommunications and medical fields use Red Pitaya as a reliable OEM component for a variety of RF applications.



*“Red Pitaya has been critical in transitioning our system from a proof-of-concept, laboratory instrument to a field-hardened industrial tool.”*

**Robert Wright** - Co-Founder and VP Engineering at LongPath Technologies

### **2. Academia**

Red Pitaya helps professors teach more efficiently and effectively, and students learn with greater ease. Learning FPGA programming and the basics of electronics is now more intuitive and affordable than ever.

*“We have been making extensive use of Red Pitaya, which has become an essential part of our activities as we conduct educational activities on radiation measurement targeted at middle and high school students. The range of research made possible by fast data collection is broad, and in this respect, Red Pitaya has become an important and easily accessible tool for middle and high school students.”*

**Kazuo Tanaka** - CEO at Accel Kitchen LLC, Associate Professor at Waseda University



### **3. Research**

Red Pitaya is an essential component of many scientific research projects in the fields of physics, communication, materials and bioscience. Use Red Pitaya to speed up your experimental setup and get faster results.



*“We are very happy with STEMlab 125-14's flexibility and ease of use. At Danish Technical University these boards have been instrumental in our DASQ-1 quantum computer project where we used them for stabilizing optical paths and photon arrival time tagging.”*

**Axel Bogdan Bregnsbo** - Research Engineer at Technical University of Denmark

### **4. Radio amateurs & makers**

Red Pitaya provides a great price/performance solution to build your own SDR transceiver or other DIY projects.

*“Thanks to Pavel Demin's free SDR Receiver App, the Red Pitaya can be used by both CW Skimmer Server and RTTY Skimmer Server to monitor about 180 kHz on each of EIGHT different radio bands, simultaneously. I'm not aware of any other SDR currently on the market that can do this so well at such a low cost.”*

**Bob Wilson** - N6TV



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**COMMUNITY!**



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