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INDUSTRIAL PRODUCT DATASHEET

Xilinx Red Pitaya STEMlab 125-14 Diagnostic Kit for FPGA application with Zynq 7010

The Xilinx Red Pitaya STEMlab 125-14 Diagnostic Kit for FPGA application with Zynq 7010 combines a Zynq 7010 FPGA main board with complete accessories for oscilloscope, spectrum analyser, signal generator, and more.

SKU	UPDATED	PRICE
102060146	2026-10-09 08:06:00	$507.00(Excl. VAT)



Overview



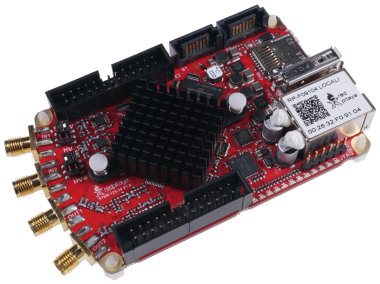
The Xilinx Red Pitaya STEMlab 125-14 Diagnostic Kit for FPGA application with Zynq 7010 delivers a versatile development platform featuring the STEMLAB125-14 main board with Dual-Core ARM Cortex-A9 MPCore Xilinx Zynq 7010 FPGA, 512MB RAM, and MicroSD storage up to 32GB. It includes complete accessories such as a 16GB Class 10 SD card, Ethernet cable, 5V2A power supply, oscilloscope probes, SMA adapters, Logic Analyser PRO, WiFi dongle, and ALU case, and supports applications like oscilloscope, industrial PID controller, signal generator, spectrum analyser, Bode analyser, and LCR meter.

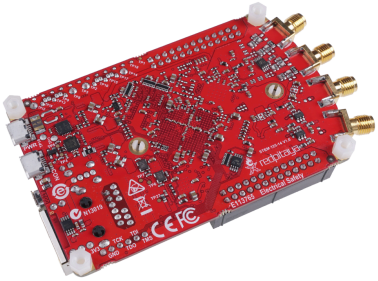
Key Features

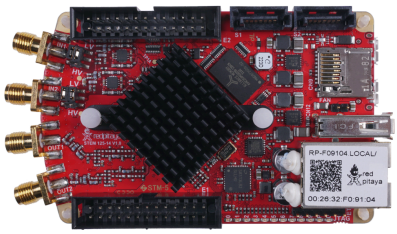
- Flexible Development Opportunities: Explore limitless FPGA Applications like oscilloscopes, spectrum analyzers and more
- Versatile Compute & FPGA with the STEMLAB125-14 Main Board
  - Dual-Core ARM Cortex-A9 MPCore
  - Xilinx Zynq 7010 FPGA
  - 512MB RAM, MicroSD Storage (Up to 32GB)
  - Ethernet, USB, WiFi (Dongle Required)
- Complete Accessories for Getting Started:
  - 16GB, Class 10 SD Card
  - 1m Ethernet Cable
  - 5V2A Power Supply
  - 2x Oscilloscope Probes
  - 2x SMA to BNC Adapters
  - 2x 50 Ohm Termination
  - 2x SMA T Adapter
  - Logic Analyser PRO
  - WiFi Dongle
  - ALU Case
- Ready for Deployment: CE, FCC Certified

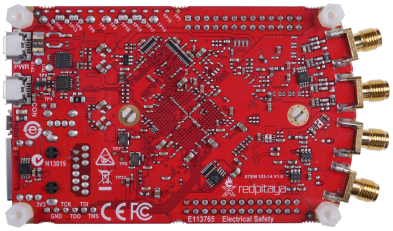
Product Gallery



















Specification

Specification	Details	
Processor	Dual-Core ARM Cortex-A9 MPCore	
FPGA	Xilinx Zynq 7010	
RAM	512MB	
System Memory	MicroSD up to 32GB	
Connectivity	Gigabit Ethernet USB 2.0 WiFi (Dongle required, not included)	
RF Inputs	Channels	2
	Sample Rate	125MS/s
	ADC Resolution	14 bit
	Full Scale Voltage Range	± 1V / ± 20V
	Input Coupling	DC
	Bandwidth	DC- 60MHz
	Input Impedance	1 MΩ

Specification	Details	
RF Outputs	Channels	2
	Sample Rate	125MS/s
	ADC Resolution	14 bit
	Full Scale Voltage Range	± 1V
	Load Impedence	50Ω
	Shortcut Protection	Yes
	Typical Raising / Falling Time	2V / 10ns
	Bandwidth	DC - 60MHz
Peripherals	Digital IOs	16
	Analog Inputs	4 Channels, 0-3.5V 12 bit
	Analog Outputs	4 Channels, 0-1.8V 12 bit
	Communication Interfaces	I2C, UART, SPI
	Available Voltages	+5V, +3.3V, -4V
Synchronisation	Trigger input through extension connector Daisy chain connection over SATA	

Applications

- **Oscilloscope**
- **Industrial PID Controller**
- **Signal Generator**
- **Spectrum Analyser**
- **Bode Analyser**
- **LCR Meter**

Part List

- 1 x Red Pitaya STEMlab 125-14 board
- 1 x Micro-SD card (16GB, class 10)
- 1 x Micro-SD card adapter
- 1 x Ethernet cable (1m)
- 1 x International power adapter (5V, 2A)
- 1 x ALU case
- 1 x Logic analyzer PRO
- 2 x Oscilloscope probes
- 2 x SMA to BNC adapter
- 2 x 50 ohm termination
- 2 x SMA T adapter
- 1 x WiFi dongle

Compliance & Logistics



HSCODE	9023009000
USHSCODE	9023000000
UPC	
EUHSCODE	9023001000
COO	SLOVENIA

Resource Links

- https://www.seeedstudio.com/Red-Pitaya-STEMlab-125-14-Diagnostic-kit-p-4992.html
- Quick Start Guide

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