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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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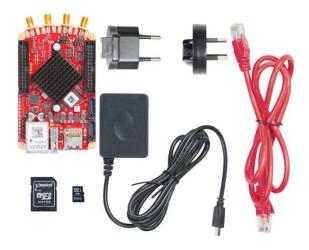






STEMlab 125-14 Starter Kit

Order number: 27761



Product information "STEMlab 125-14 Starter Kit"

STEMLab 125-14 (with original Red Pitaya v1.1)

Formerly Red Pitaya Starter Kit.

STEMLab is available in two versions and both offer the same functions and features with the difference in technical specification of high-frequency inputs and outputs, RAM capacity some other differences (find more info in the comparison table bellow). They are addressed to target different groups and / or needs. Where STEMLab 14 has 14bit input / output channels for highly accurate measurement results in professional environment, STEMLab 10 has 10bit input / output channels and is perfect for universities, students and makers.

Package Content

- STEMlab 125-14 board (Red Pitaya v1.1 board)
- Accessories (preloaded SD card 4GB C6, interchangeable power supply, 1 m Ethernet cable)

- 4 different applications (oscilloscope, signal generator, spectrum analyzer, Bode analyzer)
- Marketplace access
- MATLAB/LABVIEW remote control
- Possibility to create own app (open source code available)



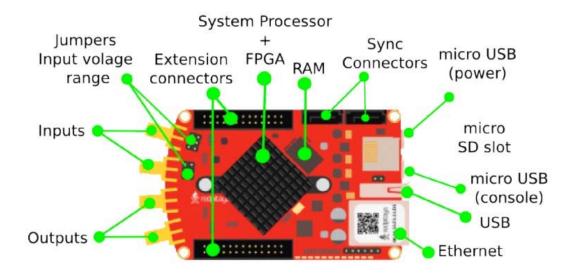


STEMlab 125-10

STEMlab 125-14

STEMLab 125-14 (originally Red Pitaya v1.1) vs. STEMLab 125-10

STEMLab is available in two versions and both offer the same functions and features with the difference in technical specification of high-frequency inputs and outputs, RAM capacity some other differences (find more info in the comparison table bellow). They are addressed to target different groups and / or needs. Where STEMLab 14 has 14bit input / output channels for highly accurate measurement results in professional environment, STEMLab 10 has 10bit input / output channels and is perfect for universities, students and makers.



		STEMLAB 125-10	STEMLAB 125-14			
	Processor	Processor DUAL CORE ARM CORTEX A9 DUAL CORE ARM CORTEX A9	Processor DUAL CORE ARM CORTEX A9 DUAL CORE ARM CORTEX A9			
	FPGA	FPGA Xilinx Zynq 7010 SOC Xilinx Zynq 7010 SOC	FPGA Xilinx Zynq 7010 SOC Xilinx Zynq 7010 SOC			
ъ :	RAM	256MB (2Gb)	512MB (4Gb)			
Basic	System memory	Micro SD up to 32GB	Micro SD up to 32GB			
	Console connection	USB to serial converter required	micro USB			
	Power connector	Micro USB	Micro USB			
	Power connector	Micro USB	Micro USB			

Power	5V, 1,5A max			5V, 2A max					
			STEMLAB 125-10			STEMLAB 125-14			
	Etherne	et	1Gbit			1Gbit			
Connectivity	USB		USB 2.0			USB 2.0			
	WIFI		requires WIFI dongle		e	requires WIFI dongle		e	
	Synchronisation		-			Dai	aisy chain connector (up to 500 Mbps)		
				STEMLAB 125-10			STEMLAB 125-14		
	RF input channels				2			2	
	Sample rate				125 MS/s			125 MS/s	
	ADC resolution				10 bit			14 bit	
RF inputs	Input impedance			1MOhm/10pF			1MOhm/10pF		
	Full scale voltage range			+-20 V			+-20 V		
	Absolute max. Input voltage range				30V			30V	
	Input ESD protection				Yes		Yes		
	Overload protection				Protection diodes		Protection diodes		
RF outputs	ST			STEM	EMLAB 125-10		STEMLAB 125-14		
	RF output channels			2		2			

	Sample rate	125 MS/	S	125 MS/s	
	DAC resolution	10 bit		14 bit	
	Load impedance	50 Ohm		50 Ohm	
	Voltage range	+-1V		+-1V	
	Ouput slew rate	200V/us		200V/us	
	Short circut protection	Yes		Yes	
	Connector type	SMA		SMA	
			STEMLAB 125-10)	STEMLAB 125-14

		STEMLAB 125-10	STEMLAB 125-14
	Digital IOs	16	16
	Analog inputs	4	4
	Analog inputs voltage range	0-3,5V	0-3,5V
Extension connector	Sample rate 100kS/s		100kS/s
	Resolution	12bit	12bit
	Analog outputs	4	4
	Analog outputs voltage range	0-1,8V	0-1,8V
	Communication interfaces	I2C, SPI, UART	I2C, SPI, UART
	Available voltages	+5V,+3,3V,-4V	+5V,+3,3V,-4V

https://shop.trenz-electronic.de/en/27761-STEMlab-125-14-Starter-Kit 12/20/2016