STEMlab 125-14 Ultimate Kit

This Ultimate Kit is based on our STEMlab 125-14 board, our most versatile and practical digitizer, which was introduced to the market in 2013 when Red Pitaya was established. Since then it has been used in a wide variety of contexts, from hobbyists and ham radio operators to industry, research, and space applications.

What is in the box

– Red Pitaya STEMlab 125-14 digitizer board
– SD card (16GB, class 10)
– Ethernet cable (1m)
– Power supply (5V, 2A)
– Aluminium case
– Logic analyzer extension module
– LCR meter board and accessories
– 2x osciloscope probes
– 2x SMA to BNC adapter
– 2x 50 ohm termination
– 2x SMA T adapter
– WiFi dongle

RAM	512MB (4Gb)
System memory	Micro SD up to 32GB

Connectivity

Ethernet	1 Gbit
USB	USB 2.0
WIFI	Using Wi-Fi dongle

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	1M Ω

Channels	2
Sample rate	125MS/s
DAC resolution	14 bit
Full scale voltage range	± 1V
Load impendance	50 Ω
Shortcut protection	Yes
Typical raising/falling time	2V / 10ns
Bandwidth	DC-60MHz

Extension connector

Digital IOs	16
Analog inputs	4 channels 0-3.5V 12bit
Analog outputs	4 channels 0-1.8V 12bit
Communication interfaces	I2C, SPI, UART
Available voltages	- 4V, + 3.3V, + 5V

Trigger input	Through extension connector
Daisy chain connection	Over SATA connection
Ref. clock input	N/A

More

Use case	Industry
Weight	1,35 kg
Dimensions	41 × 14,5 × 9 cm