

		STEMLAB 125-10	STEMLAB 125-14
Basic	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
	RAM	256MB (2Gb)	512MB (4Gb)
	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 consumption	5V, 1,5A max	5V, 2A max

		STEMLAB 125-10	STEMLAB 125-14
Connectivity	Ethernet	1Gbit	1Gbit
	USB	USB 2.0	USB 2.0
	WIFI	requires WIFI dongle	requires WIFI dongle
	Synchronisation	-	Daisy chain connector (up to 500 Mbps)

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RF inputs	RF input channels	2	2
	Sample rate	125 MS/s	125 MS/s
	ADC resolution	10 bit	14 bit
	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

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RF outputs	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
	Output slew rate	200V/us	200V/us
	Short circuit protection	Yes	Yes
	Connector type	SMA	SMA

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	Digital IOs	16	16

Extension connector	Analog inputs	4	4
	Analog inputs voltage range	0-3,5V	0-3,5V
	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