

hardware comparison

Name	Kijani Grows V2 Controller	Arduino Yun	BeagleBone A6	Cubieboard	pcDuino	Rascal Micro	Raspberry Pi Model B
Price	\$102.00	\$69,00	\$89,00	\$49,00	\$60,00	\$199,00	\$35,00
Processor	Atheros ar9331 400Mhz Atmega 2560 / ar9331	ATMega32u4 16 MHz	TI AM3359 ARM Cortex-A8 720 MHz	Allwinner 1 GHz ARM Cortex-A8	1 GHz ARM Cortex A8 CPU	AT91SAM9G20 ARM926EJ/S @ 400 MHz	BCM2835 ARM11 700 MHz
Graphics	N/A	N/A	LCD	Mali-400	OpenGL ES2.0, OpenVG 1.1 Mali 400 core	N/A	Broadcom VideoCore IV
RAM	64MB	2.5KB	256 MB DDR2	512M/1GB DDR3 @ 480 MHz	1 GB DRAM	64 MB	512 MB
Storage	microSD card	32 KB flash	4 GB flash (microSD)	4 GB NAND flash	2GB Flash	microSD card	SD Card
Size		2.7" x 2.1"	3.4" x 2.1"	3.94" x 2.4"	4.93" x 2.05"	2" x 4"	3.37" x 2.125"
Input Voltage	5V-48V	5V	5 V	5V	5V	5 V	5 V
Interfaces	DIO 57 GPIO 15, 2x I2C, SPI, 4x UART	Digital GPIO 14	GPIO I2C UART SPI CAN	I2C, SPI, IR	Digital GPIO 14	Digital GPIO 14	GPIO, UART, I2C, SPI
USB 2.0	microUSB	microUSB, USB	Yes	Yes (2)	microUSB, USB	Yes (2)	Yes
USB Device	USB Host	USB Host	Client,Host	Host	Client,Host	USB Host	USB Host
Storage Slots	microSD	microSD	MicroSD	microSD	microSD	microSD	SD
Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi	Internal and external antenna. AR9331 Openwrt	Yes, Atheros AR9331 MIPS-based Wi-Fi SoC running Linino,	No	No	No	No	No
Mic In	(usb audio)	No	No	No	No	No	No
Audio Out	(usb audio)	No	No	Yes	No	Pins for I2S	Yes
Analog In	(usb audio)	12	Yes	No	12	4	Yes
Analog Out	(usb audio)	7 (PWM)	8 (PWM)	Yes	6 (PWM)	7 (PWM)	Yes
HDMI	No	No	No	Yes	Yes	No	Yes
Other Video Out	(usb video)	No	No	No	No	No	RCA
real time clock	Yes – 10 year batter	No	No	No	No	No	No
sdcard	12 at 2A each	No	No	No	No	No	No
open collector outputs	12 tranistors (@2A)	No	No	No	No	No	No
external wifi antenna	yes	No	No	No	No	No	No
sensor interface circuits	14 switchable input circuits	No	No	No	No	No	No
watchdogs	3- (1 ic mpu supervisory circuit), (9331->2560) (2560->9331)	No	No	No	No	No	No
power cut off reboot	mosfet smart power cutoff	No	No	No	No	No	No