# ARDUINO YÚN REV 2

Code: ABX00020

The Yún Rev 2, Linux powered board with the Arduino simplicity, is the perfect board for your IoT projects!

The Yún rev. 2 with the power of a Linux based system that enables advanced network connections and applications.

Connection to your WiFi or wired network is simple thanks to the Yún Web Panel and the dedicated "YunFirstConfig" sketch. The Web panel allows you to manage your shield preferences and upload your sketch. The Yún rev. 2 uses the Bridge library and so extends the board capabilities by using the Linux processor. As always, every element of the platform – hardware, software and documentation – is freely available and open-source. This means that you can learn exactly how it's made and use its design as the starting point for your own projects.
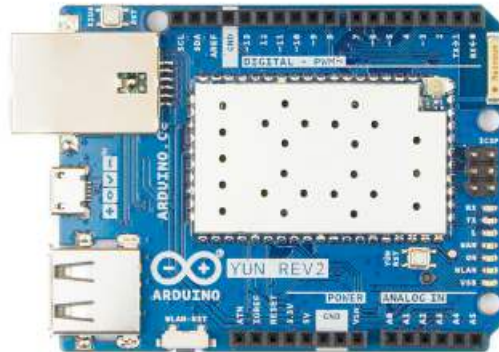
AVR Arduino microcontroller

Microcontroller	ATmega32U4
Operating Voltage	5V
Input Voltage	5V
Digital I/O Pins	20
PWM Output	7
Analog I/O Pins	12
DC Current per I/O Pin	40 mA on I/O Pins; 50 mA on 3,3 Pin
Flash Memory	32 KB (of which 4 KB used by bootloader)
SRAM	2.5 KB
EEPROM	1 KB
Clock Speed	16 MHz

Linux Microprocessor

Processor	Atheros AR9331
Architecture	MIPS
Operating Voltage	3.3V
Ethernet	802.3 10/100Mbit/s
WiFi	802.11b/g/n 2.4 GHz
USB Type	2.0 Host
Card Reader	Micro-SD
RAM	64 MB DDR2
Flash Memory	16 MB
Clock Speed	400 MHz
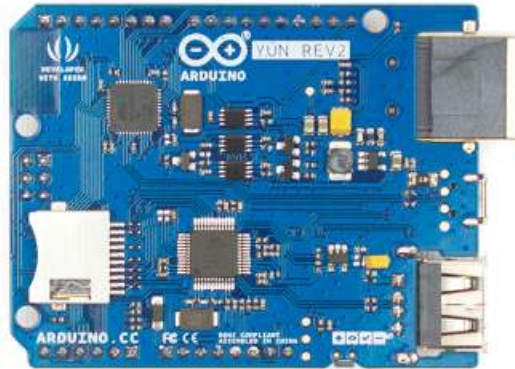
Compatibility

The Yún Rev. 2 board allows you to connect to the internet using the onboard WiFi or Ethernet connection. Furthermore thanks to the Bridge library it able to extend the functionalities of the Microprocessor by using the computational power of the Linux processor on the shield. Using the Yún Web Panel it is also possible to configure all the shield-related features and remotely upload sketches on the board connected to the shield.

On-board Indicators

The shield contains a number of signalling LEDs :

- ON (green): indicates that the shield is properly powered

- WLAN (blue): indicates a connection to a wireless network

- WAN (red): indicates connection to ethernet

- USB (white) : indicates system activity and/or if a USB key is mounted