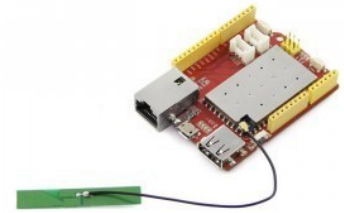




PRODUCT NAME : Seeeduino Cloud - Compatible with Arduino Yun

PRICE : Rs 9,999.00

SKU : RM3207



DESCRIPTION

The Cloud from Seeeduino is a microcontroller based around the Dragino WiFi IoT module [HE](#) and the classic ATmega32u4. This board is Arduino compatible with built-in ethernet and WiFi support. There's also a USB-A port that makes it good for designing prototypes that need network connection. You can use this as a compatible board the now-discontinued Arduino Yun.

The HE - which means "core" in Chinese - is a minimal system that's compatible with 802.11 b/g/n. The chip has a rich interface such as Ethernet, USB, UART, and lots of GPIO pins.

A Linux machine is embedded directly on the PCB of the Arduino Leonardo. They are connected so that from the Arduino side it's very easy to run commands on the Linux side and use it as an Ethernet and Wifi interface.

Historically, interfacing Arduino with complex web services has been quite a challenge due to the limited memory available. Web services tend to use verbose text based formats like XML that require quite a lot of ram to parse. On the Cloud, you can use the Yun Bridge library which delegates all network connections and processing of HTTP transactions to the Linux machine.

The board can be programmed with an USB cable to the Arduino IDE or through the Wifi connection without the need to physically access the board. The new Arduino 1.5.4 IDE has the ability to detect the Cloud connected to the local network.

TECHNICAL DETAILS

Microcontroller	ATmega32u4
Operating Voltage	5V
Input Voltage (recommended)	5V via microUSB
Input Voltage (limits)	6-20V
Digital I/O Pins	14
PWM Channels	7
Analog Input Channels	6 (plus 6 multiplexed on 6 digital pins)
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega32u4) of which 4 KB used by bootloader
SRAM	2.5 KB (ATmega32u4)
EEPROM	1 KB (ATmega32u4)
Clock Speed	16 MHz

- Compatible with Arduino Yun
- Based on Dragino WiFi IoT module HE
- Open Source OpenWrt system inside
- Support 2.4Ghz WiFi, 802.11 b/g/n
- Support Ethernet
- Support USB 2.0
- Size: 75.10mm x 53.39mm x 11.50mm / 2.95" x 2.10 x 0.45"
- Working temperature: -20~60°C
- Surface colors: Red