Seeeduino Cloud - Compatible with Arduino Yun
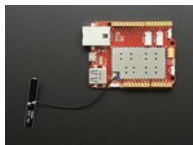
PRODUCT ID: 3034

IN STOCK

| 1 | **ADD TO CART** |

☐ **Also include 1 x Adafruit IO+ Subscription Pass – One Year ()**

1-9
10-19
20+

ADD TO WISHLIST

DESCRIPTION

TECHNICAL DETAILS

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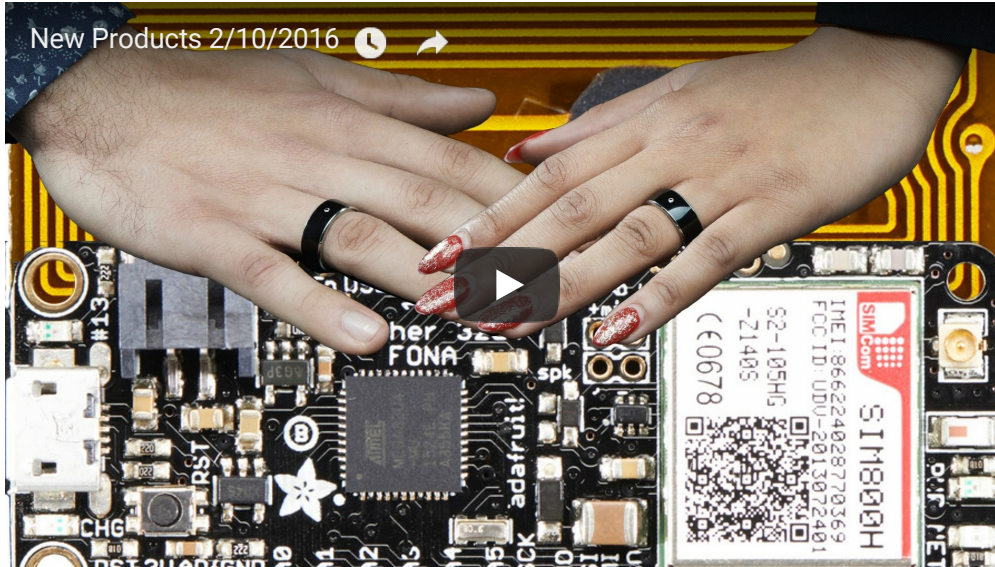
The HE - which means "core" in Chinese - is a minimal system that's compatible with 802.11 b/g/n. The chip has a rich interface such as Ethernet, USB, UART, and lots of GPIO pins.

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 or 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

MicrocontrollerATmega32u4

Operating Voltage5V

Input Voltage (recommended)5V via microUSB

Input Voltage (limits)6-20V

Digital I/O Pins14

PWM Channels7

Analog Input Channels6 (plus 6 multiplexed on 6 digital pins)

DC Current per I/O Pin40 mA

DC Current for 3.3V Pin50 mA

Flash Memory32 KB (ATmega32u4) of which 4 KB used by bootloader

SRAM2.5 KB (ATmega32u4)

EEPROM1 KB (ATmega32u4)

Clock Speed16 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
- Seeed Wiki
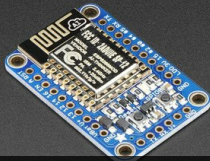- Schematic
- Chip datasheet

MAY WE ALSO SUGGEST...

Adafruit ATWINC1500 WiFi	Adafruit Feather HUZZAH	Adafruit Feather M0 WiFi -
Adafruit HUZZAH ESP8266	Seeeduino Lite -	802.3af PoE Output Data &
802.3af PoE Output Data &	PoE Splitter with MicroUSB	

DISTRIBUTORS EXPAND TO SEE DISTRIBUTORS

CONTACT

SUPPORT

DISTRIBUTORS

EDUCATORS

JOBS

FAQ

SHIPPING & RETURNS

TERMS OF SERVICE

PRIVACY & LEGAL

ABOUT US

ENGINEERED IN NYC Adafruit ®

"To be persuasive we must be believable; to be believable we must be credible; credible we must be truthful." - Edward R. Murrow

4.9 ★★★★★
Google
Customer Reviews