



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



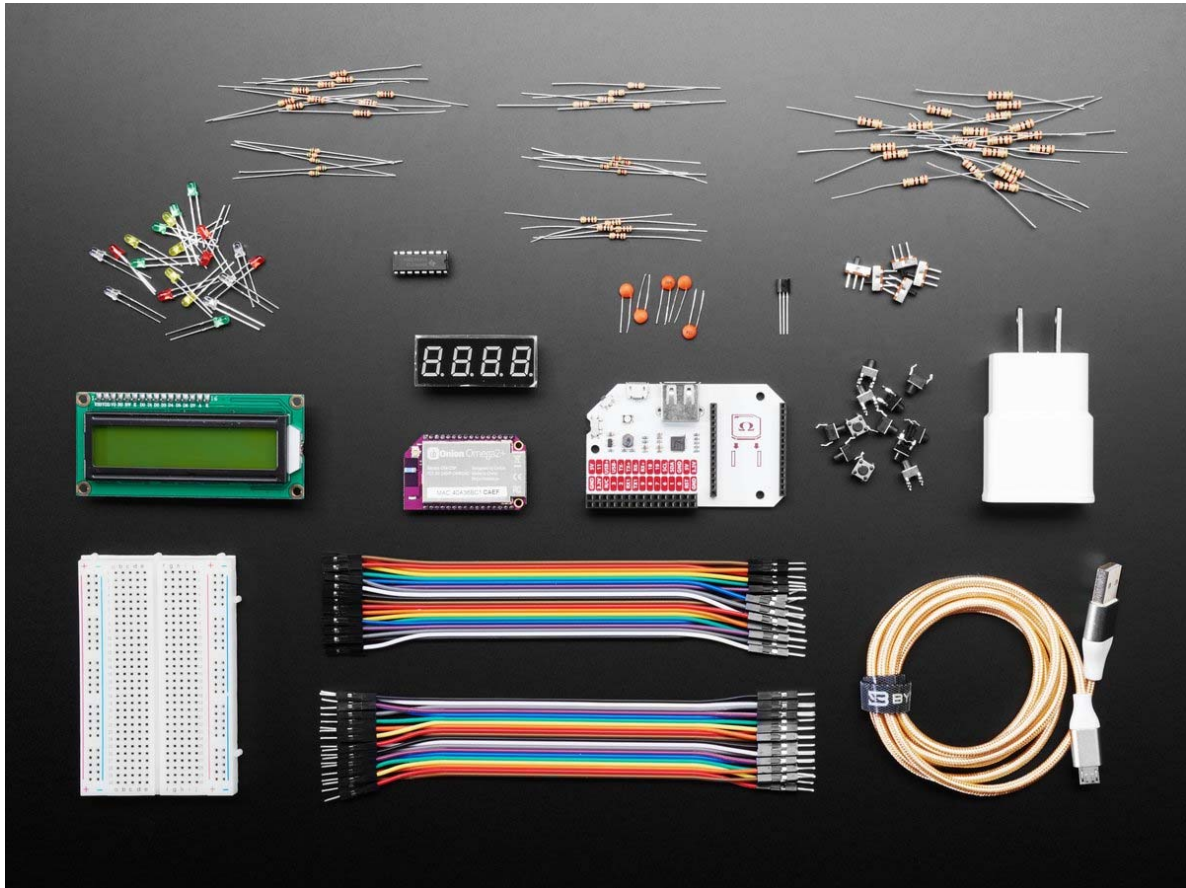
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Onion Omega2+ Starter Kit

PRODUCT ID: 3807

Ever wanted your own Linux-based IoT computer? A small one, that can be battery powered? The Onion Omega2 is sort of in-between a microcontroller (like an Arduino/CircuitPython/MakeCode running chip) and a full-fledged microcomputer (like Raspberry Pi). What you get is a bite-sized development board that combines the power-efficiency of the Arduino and the flexibility of the Raspberry Pi!

So, for example, it runs Linux, but isn't going to replace your desktop computer. It's low power and has a static filesystem, but still requires some time to boot up. It's based on the MediaTek MT7688, a WiFi SoC that was initially designed for devices like WiFi routers or complex IoT devices. It comes with a variant of OpenWRT (nicknamed Onion OS) that is a slimmed down version of Linux. It's not going to run node.js but it *is* Linux.

So, you get WiFi built in, and a full TCP/IP stack with SSL/TLS with all the scripting/programming language support that you expect.

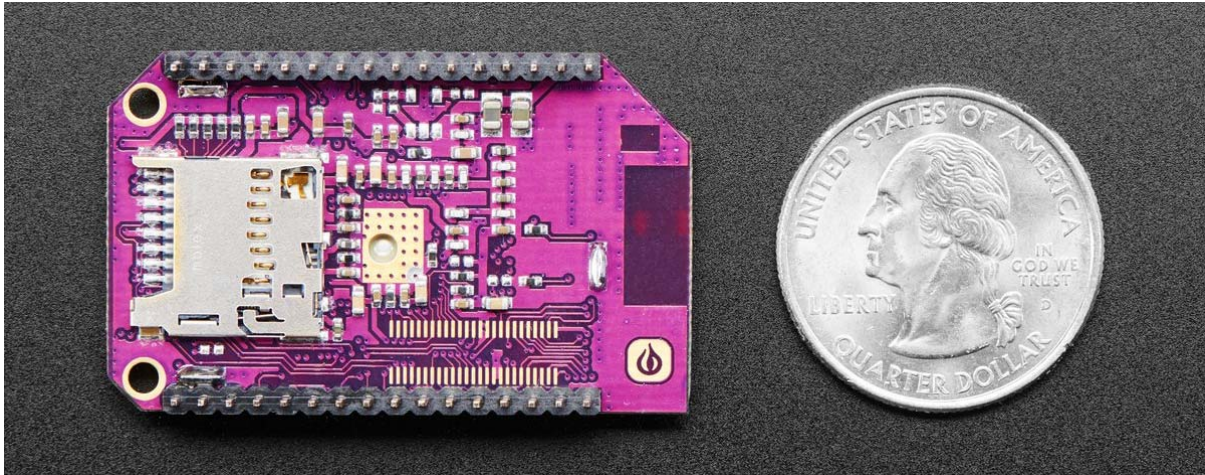
Unlike a Raspberry Pi, you don't get a desktop or even a console on HDMI. Instead, you use a serial connection/ssh and the command line, or the simplified webpage interface to program it. So it's good if you have a bit of experience with those things!

Where it excels is as a physical computing platform, with hardware and WiFi. Wanna know how to blink an LED, or even multiple (!) LEDs? You can do that! You'll be able to read switches and use shift registers. Blinking text? No problem! A 7-Segment display and an LCD screen are included! The Starter Kit comes with all the fixins' to get comfortable with IoT and programming languages, including Python, C++, Node js, php, Bash, Ruby, Perl, Lua, G, and more!

This starter kit has everything you need to dip your toes into Onion Omega2+ play and development. Once you have your project or product well-developed you can then purchase individual Omega2's and add-on boards from Onion.

This Onion Omega2+ Starter Kit includes:

- Omega2+ development board – comes with built-in Wi-Fi and onboard storage. 128 MB RAM and 32 MB Flash memory and microSD card for additional storage
- Expansion Dock
- Wall Charger
- USB Micro-B Cable
- Breadboard
- 20 x M-M Jumper Wire
- 20 x M-F Jumper Wire
- 20 x LEDs
- 5 x 100nF Capacitor
- 5 x 100Ω Resistor
- 20 x 200Ω Resistor
- 5 x 470Ω Resistor
- 5 x 1kΩ Resistor
- 5 x 5.1 kΩ Resistor
- 5 x 51 kΩ Resistor
- 12 x Push Button
- 5 x Slide Switch
- Digital Temperature Sensor
- 7-Segment Display
- 16x2 LCD Screen
- Shift Register



<https://www.adafruit.com/product/3807> 6-20-18