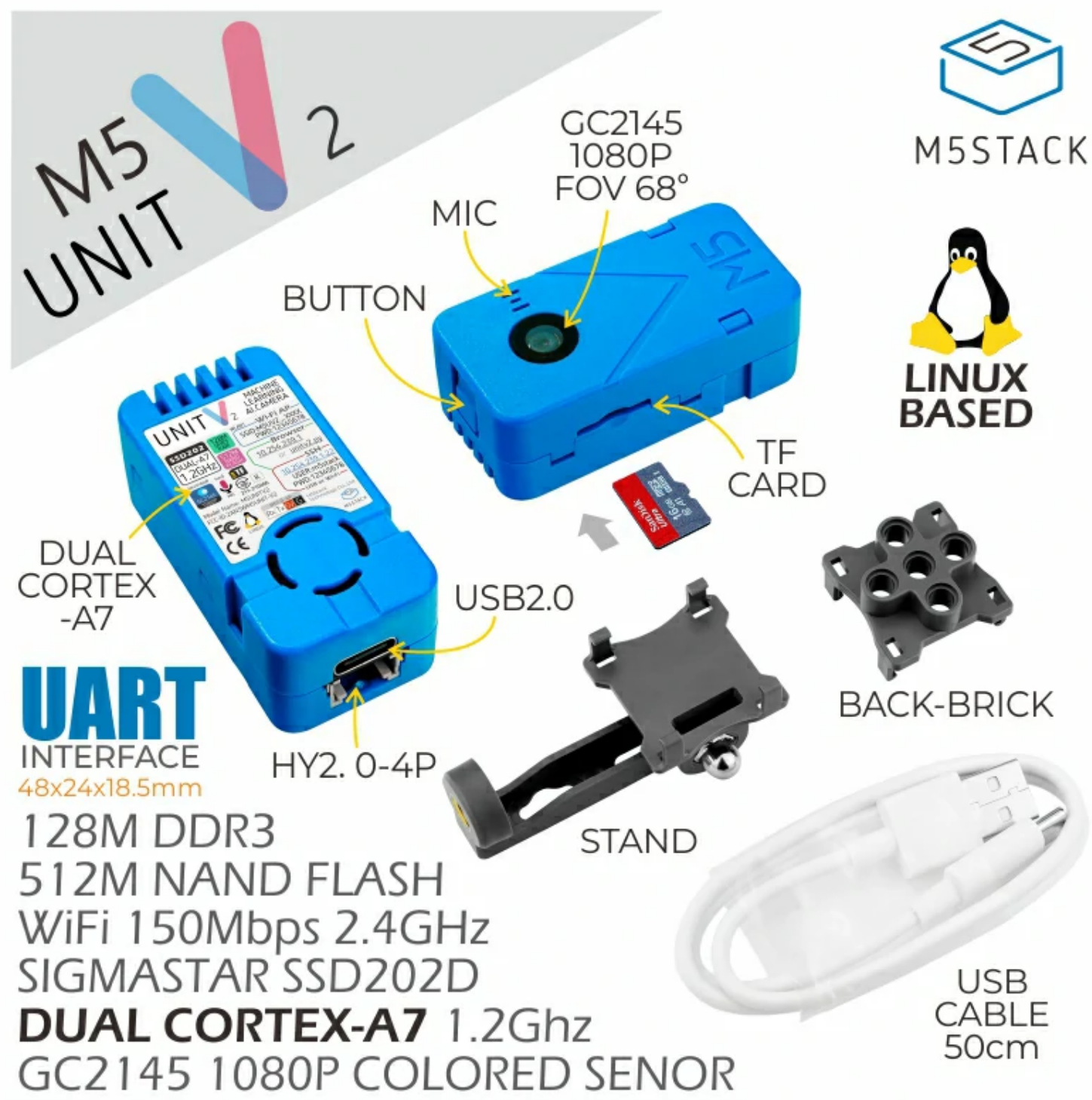# UnitV2

SKU:U078-D

Description

UnitV2 is a high-efficiency AI recognition module launched by M5Stack, using Sigmstar SSD202D (integrated dual-core Cortex-A7 1.2Ghz processor) control core, integrated 128MB-DDR3 memory, 512MB NAND Flash, and 1080P camera. With embedded Linux operating system and rich software and hardware resources and development tools integrated, UnitV2 is committed to bringing users a simple and efficient AI development experience out of the box.

Out Of The Box AI Recognition Function

○ UnitV2 integrates not only the basic AI recognition service developed by M5Stack, but also has built-in multiple recognition functions (such as face recognition, object tracking and other common functions), which can quickly help users build AI recognition applications.

○ All features! Plug and play! UnitV2 has a built-in wired network card. When you connect to a PC through the TypeC interface, it will automatically establish a network connection with UnitV2. With highly free connectable style, it can also be connected and debugged via WiFi.

○ UART serial port output, all identification content is automatically output in `JSON` format through the serial port, which is convenient to call.

Development Efficiency Improvement

○ UnitV2's factory Linux image integrates a variety of basic peripherals and development tools (such

as Jupter Notebook etc.)

◦ Through SSH access, you can fully control the hardware resources of this camera

◦ Easily build a custom recognition model through M5Stack's V-Training (AI model training service).

Software Support

◦ The M5Stack team will update more identification function services through the release of firmware in the future, and users can directly update the software through TFCard.

Product Features

◦ Sigmstar SSD202D
◦ Dual Cortex-A7 1.2Ghz Processor
◦ 128MB DDR3
◦ 512MB NAND Flash
◦ GC2145 1080P Colored Sensor
◦ Microphone
◦ WiFi 2.4GHz

Include

◦ 1 x M5Stack UnitV2
◦ 1 x USB-C Cabel (50cm)
◦ 1 x Stand
◦ 1 x Back Brick

Applications

- AI recognition function development
- Industrial visual identification sorting
- Machine vision learning

| Specification

Resources	Parameter
Sigmstar SSD202D	Dual Cortex-A7 1.2Ghz Processor
Flash	512MB NAND
RAM	128MB-DDR3
Camera	GC2145 1080P Colored Sensor
Lens	FOV 68° , DOF= 60cm- ∞
Power Input	5V @ 500mA
Peripherals	TypeC x1, UART x1, TFCard x1, Button x1, Microphone x1, Fan x1
Indicator light	Red, While
WiFi	150Mbps 2.4GHz 802.11 b/g/n
Operating Temperature	32°F to 104°F (0°C to 40°C)
Net weight	18g
Gross weight	62g
Product Size	48*18.5*24mm
Package Size	157*38*38mm
Case Material	Plastic (PC)