



M5STACK 2025 PRODUCT CATALOG

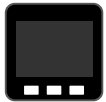
Build Fast, Stack Smart

Build Fast, Stack Smart.

About M5Stack

M5Stack is a leading provider of modular, open-source IoT development solutions. Our stackable hardware and intuitive programming platform empower developers and businesses to accelerate innovation and rapidly prototype solutions for IIoT, home automation, smart retail, and STEM education.

Modular **5cm x 5cm** **STACK**able



3 million+

M5 Products Sold Globally



15%

of Annual Revenue
Invested in R&D



10

Product Lineups

400+

SKUs Available



50+

IIoT Applications



50+

Global Distributors



Founded in China in
2017



450,000+

UIFlow Code Downloads



110+

Countries Coverage



148,000+

Global Maker & Developer
Community

M5STACK

Contents

01

Main Controller

ESP32 Microcontroller |
Highly Extensible |
Industry-Grade Quality

02

Expandable Functional Modules

Communication | I/O | Driver | Power

03

Sensors & Actuators

Environmental |
Motion | Light

04

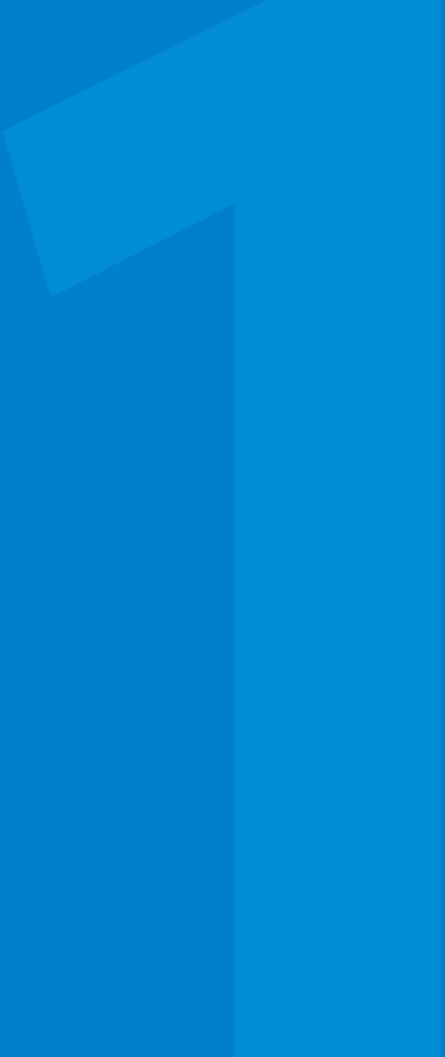
Hobby & Accessories

DIY Kits | Cables | Mounts

05

Software Platform

UIFlow – Graphic
Coding IDE



Main Controller

ESP32 Microcontroller | Highly Extensible | Industry-Grade Quality

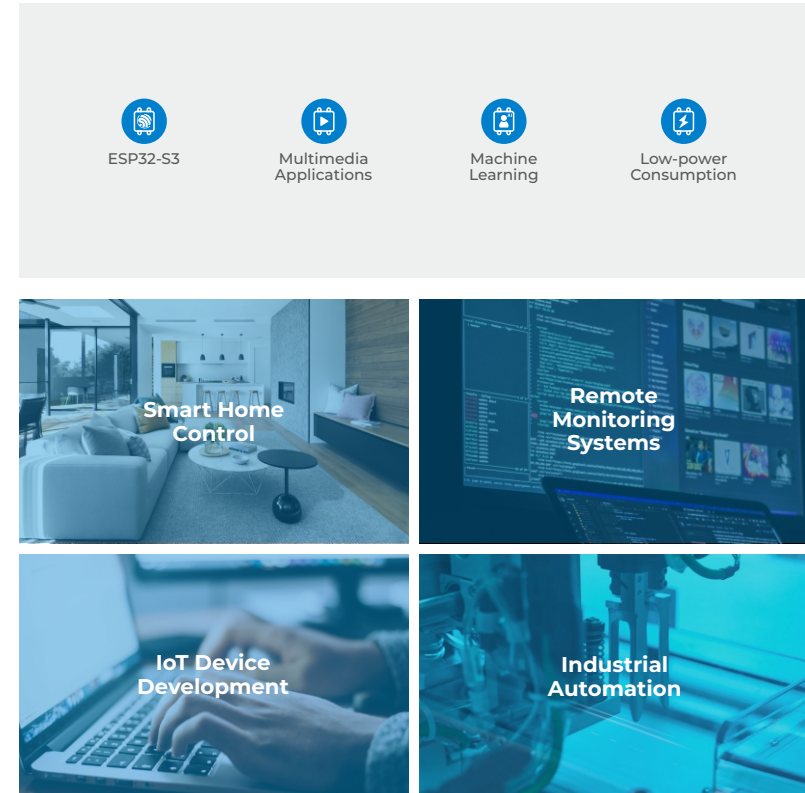


CoreS3

SKU: K128

• SoC	ESP32-S3@Xtensa LX7, 16MB Flash & 8MB PSRAM, Wi-Fi, USB OTG	• Speaker	16-bit I2S amplifier AW88298 @1W
• Touch IPS LCD Screen	2.0" @320 x 240 ILI9342C	• Audio Codec	ES7210, dual-microphone input
• Camera	GC0308 0.3MP	• Product Size	Whole set (CoreS3+DinBase): 69.0 x 54.0 x 31.5mm Main unit (CoreS3): 54.0 x 54.0 x 15.5mm
• Proximity Sensor	LTR-553ALS-WA	• Product Weight	72.7g
• Power Management	AXP2101	• Packaging Size	105.6 x 66.0 x 35.3mm
• Six-axis IMU	BM1270	• Gross Weight	101.8g
• Three-axis Magnetometer	BMM150		
• RTC	BM8563		

CoreS3 is the third-generation main unit of the M5Stack development kit series. Its core controller uses the ESP32-S3 solution, featuring a dual-core Xtensa LX7 processor with a main frequency of 240MHz. It comes with WiFi functionality, onboard 16MB Flash and 8MB PSRAM, and supports program downloading via the Type-C interface. It also supports OTG and CDC functions, making it easy to connect USB devices and flash firmware.

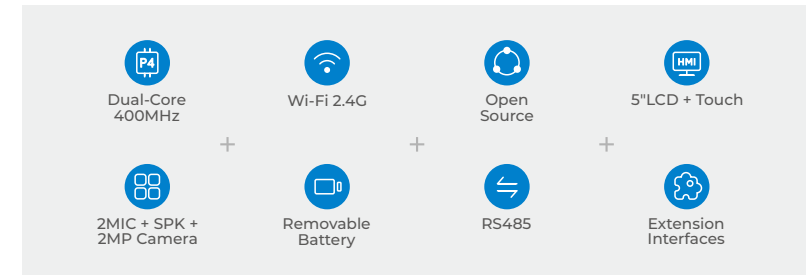


Tab5

SKU: C145

• Main Controller SoC	ESP32-P4NRW32 (RISC-V 32-bit dual-core 400 MHz + LP single-core 40 MHz)	• RS-485 Port	SIT3088 (120Ω switchable terminator) supply range 6 ~ 24V
• Wireless Module SoC	ESP32-C6-MINI-1U (Wi-Fi 6 @ 2.4 GHz / Thread / ZigBee)	• Expansion Ports	1 × HY2.0-4P, 1 × M5-Bus, GPIO_EXT expansion bus
• Display	5-inch IPS TFT (1280 × 720)	• Motion Sensor	BMI270 6-axis (accelerometer + gyroscope, interrupt wake-up)
• Touch	GT911 multi-touch controller (I2C)	• RTC	RX8130CE (timed interrupt wake-up)
• Camera	SC2356 2MP (1600 × 1200), via MIPI-CSI	• Reset/Boot Button	1 × Button (power on/off & download mode)
• Microphone	Dual-microphone array (AEC)	• Charge Management	IP2326 charge-management IC
• Speaker	1W @ 8Ω NS4150B	• Power Monitoring	INA226 (bus current/voltage)
• USB Ports	USB Type-A (Host), USB Type-C (USB 2.0 OTG)	• Battery	NP-F550 Li-ion battery, 7.4V@2000mAh (14.8Wh)

Tab5 is a highly extensible, portable smart IoT terminal development device designed for developers, integrating a dual-chip architecture and abundant hardware resources. Its main controller adopts the RISC-V-based ESP32-P4 SoC, equipped with 16MB Flash and 32MB PSRAM; the wireless module uses the ESP32-C6-MINI-1U, supporting Wi-Fi6.



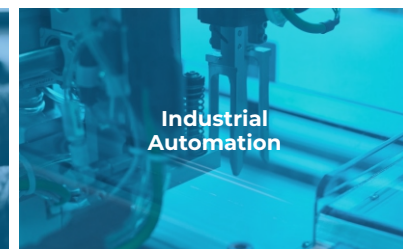
Smart Home
Control



Remote
Monitoring
Systems



IoT Device
Development



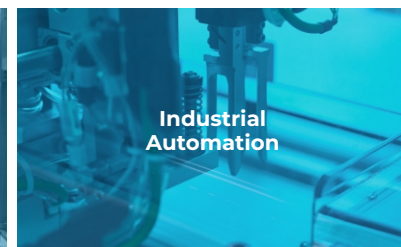
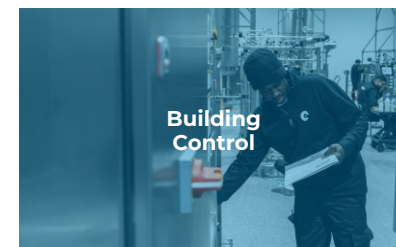
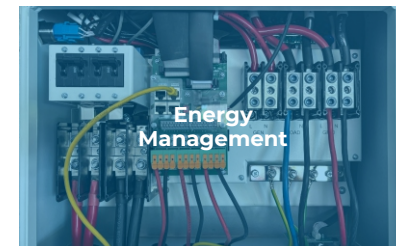
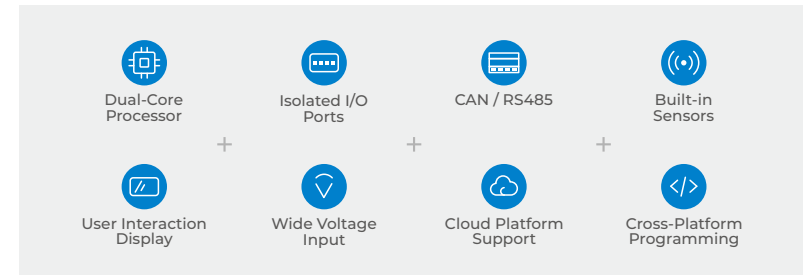
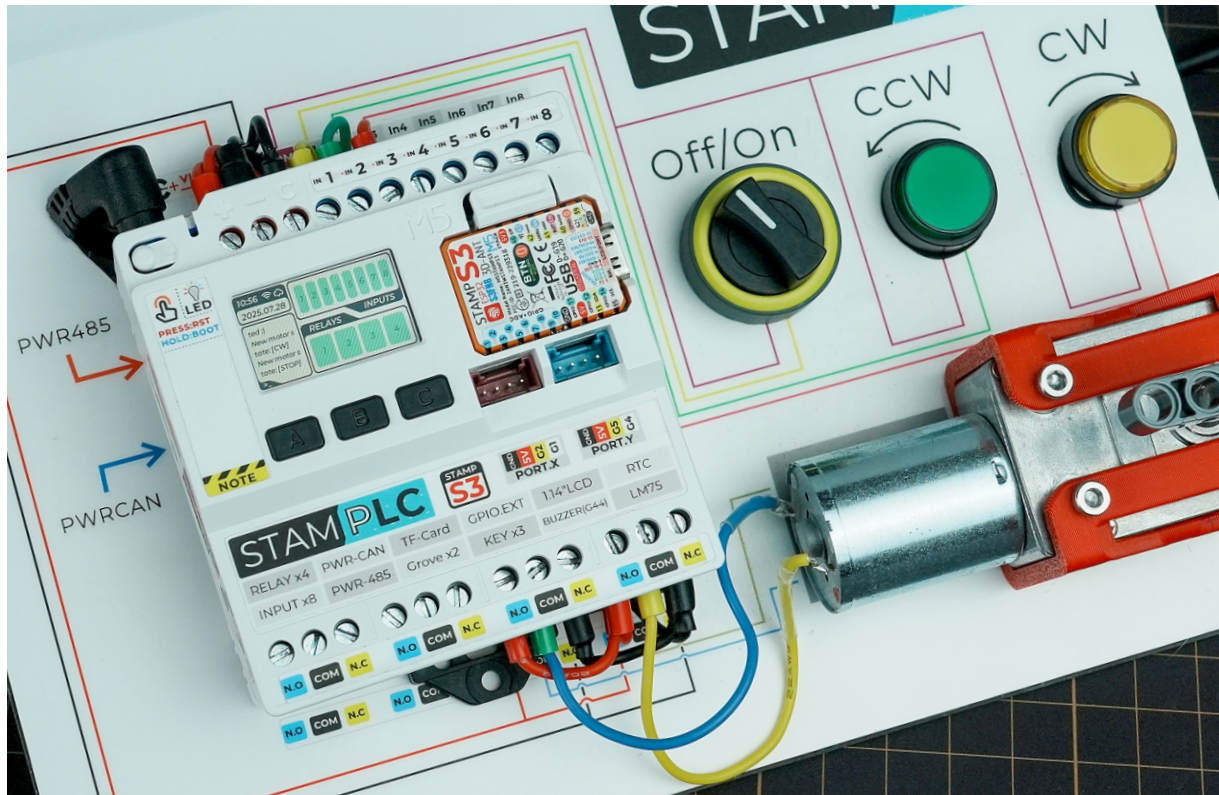
Industrial
Automation

StamPLC

SKU: K141

• Control Module	StampS3A Control Module, based on ESP32-S3FN8, with 8MB Flash, 2.4 GHz Wi-Fi	• PWR-CAN Interface	XT30(2+2)PW-M
• FLASH	8MB	• PWR-485 Interface	HT3.96-4P
• Digital Inputs	8 opto-isolated digital inputs, Input voltage range: DC 5-36V	• Interactive Controls	1 RESET/BOOT button, 3 user buttons, buzzer
• Digital Outputs	4 relay outputs	• Sensors	LM75 temperature sensor, INA226 voltage/current sensor, RTC (RX8130CE)
• Relays	AC 5A@250V DC 5A@28V	• Data Storage	Built-in microSD card slot
• DC Power Supply	Supports wide voltage input of DC 6 ~ 36V@1A DC Power Connector: DC5521	• IO Port Load Capacity	2x8 expansion interface maximum load: DC 4.76V@700mA
• Expansion Interfaces	GPIO.EXT interface, 2 HY2.0-4P interfaces	• Installation Method	DIN rail mounting
• Communication Interfaces	Onboard PWR-CAN and PWR-485 interfaces	• Operating Temperature	0 ~ 40°C

StamPLC is an IoT programmable logic controller designed for industrial automation and remote monitoring. The product is based on the StampS3A control module, which not only delivers powerful processing capabilities but also provides efficient wireless connectivity. In terms of control, StamPLC offers 8 opto-isolated digital inputs and 4 relay outputs (supporting both AC and DC loads), along with a GPIO.EXT port and 2 Grove interfaces, making the integration of various sensors and actuators both simple and reliable.

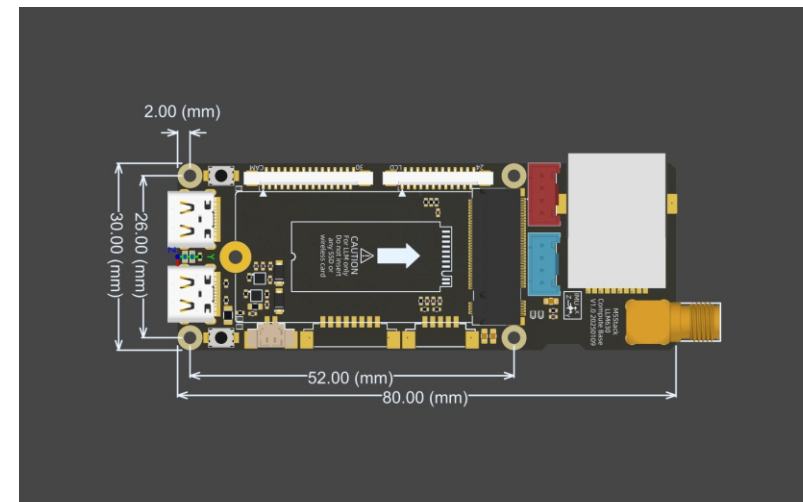
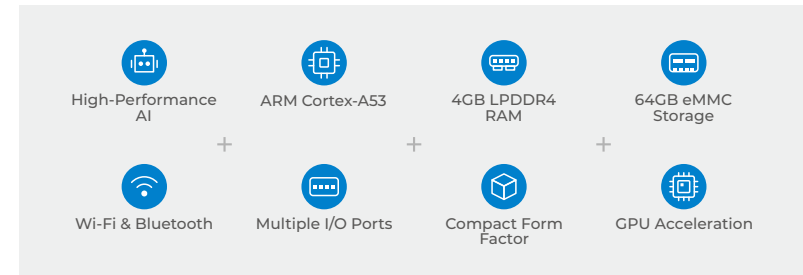
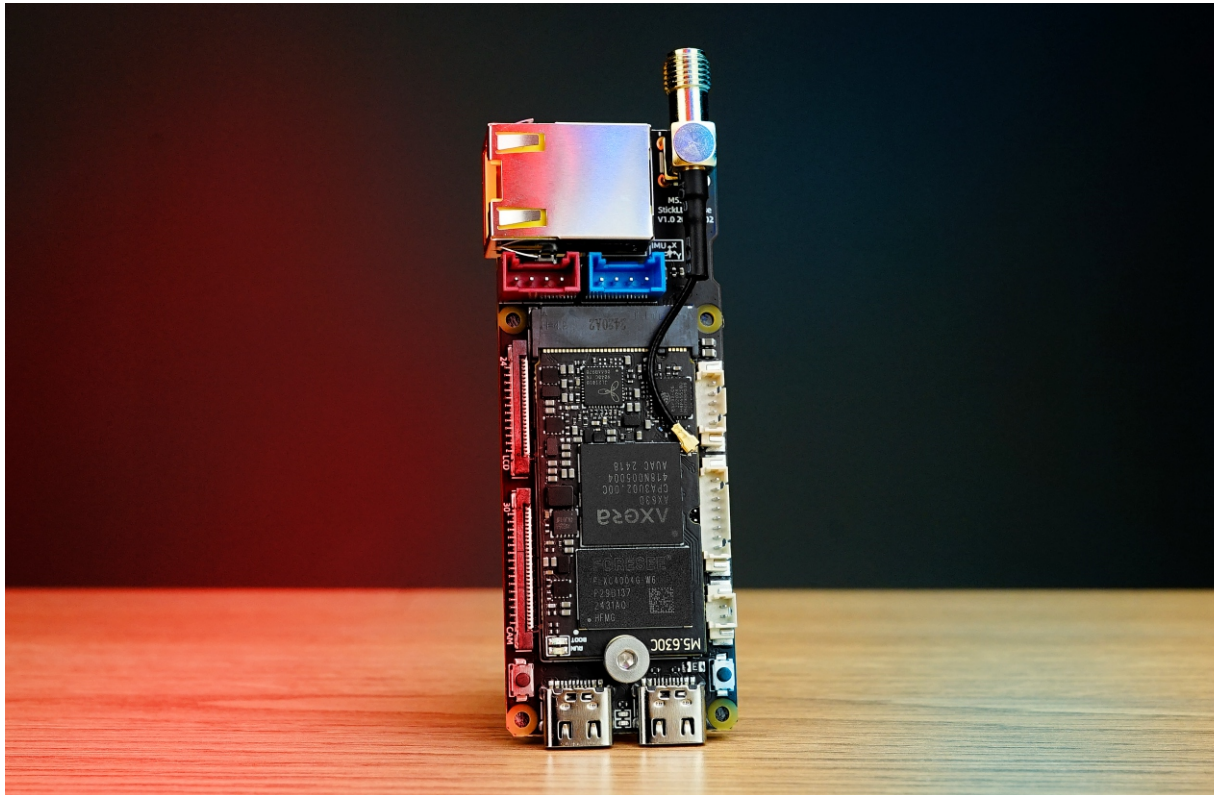


LLM630 Compute Kit

SKU: K143

• Processor	AX630C @ Dual Cortex A53 1.2 Ghz MAX.12.8 TOPs @INT4, and 3.2 TOPs @ INT8	• Antenna Interface	SMA inner hole
• NPU	3.2TOPs @ INT8	• Audio Interface	MIC and SPK Header 5P @ 1.25mm
• RAM	4GB LPDDR4 (2GB system memory + 2GB hardware acceleration dedicated memory)	• Display Interface	MIPI DSI 1x 2Lane MAX 1080p @ 30fps @ 1.25mm
• eMMC	eMMC5.1 @ 32GB	• Camera Interface	MIPI CSI 1x 4Lane MAX 4K @ 30fps @ 1.25mm
• Wired Network	JL2101B-N040C @ 1GbE	• USB Power Input	5V @ 2A
• Wireless Network	ESP32-C6 @ Wi-Fi6 2.4 GHz	• HY2.0-4P Interface	PortA Header 4P @ 2.0mm (I2C) PortC Header 4P @ 2.0mm (UART)
• USB-UART	CH9102F @ USB to Serial Port	• Buttons	2 buttons for power on/off, user interaction, and reset functions
• USB-OTG	USB 2.0 Host or Device	• Sensor	BM1270 @ 6-axis

The LLM630 Compute Kit is an AI large language model inference development platform designed for edge computing and intelligent interaction applications. The kit's mainboard is equipped with the Aixin AX630C SoC processor, integrating a high-efficiency NPU with 3.2 TOPs@INT8 computing power, providing powerful AI inference capabilities to efficiently execute complex vision (CV) and large language model (LLM) tasks, meeting the needs of various intelligent application scenarios.

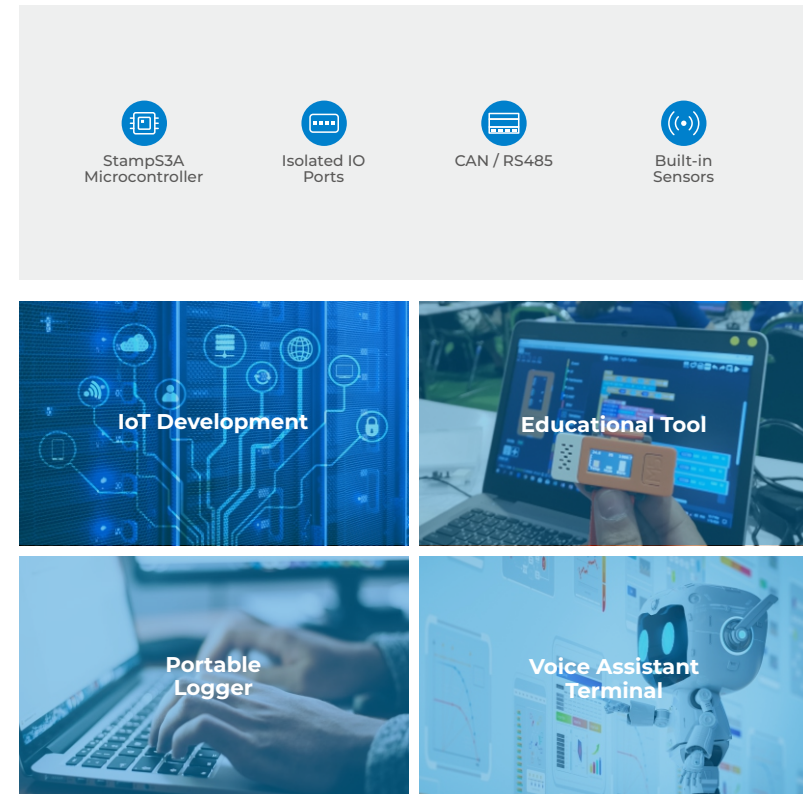
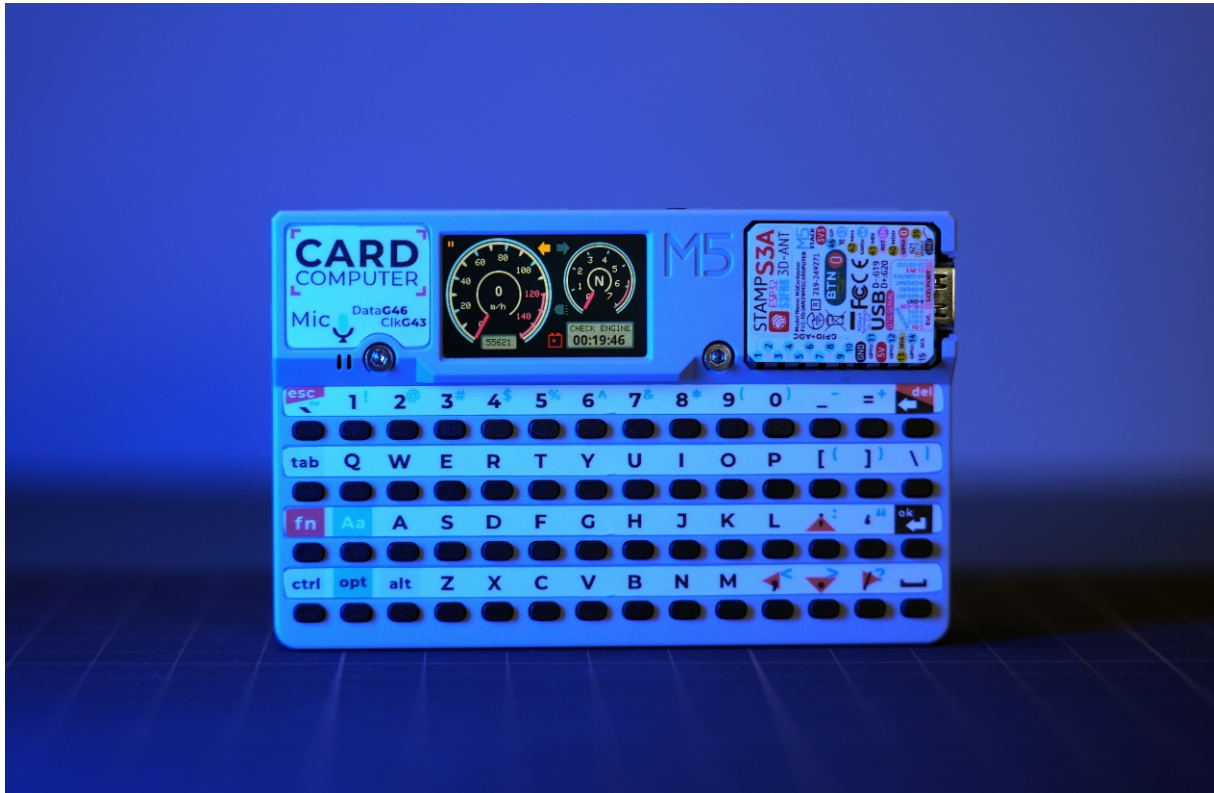


Cardputer v1.1

SKU: K132-V11

• SoC	ESP32-S3FN8 (Xtensa Lx7), 8MB Flash, Wi-Fi, OTG, CDC	• Cavity Speaker	8Ω@1W I2S@NS4168
• Flash	8MB	• Microphone	MEMS Microphone @ SPM1423
• External Storage	microSD	• Infrared Distance	∠0° Infrared emission distance (straight line): 410cm ∠90° Infrared emission distance: 66cm ∠45° Infrared emission distance: 170cm
• Keyboard	56 keys (4 x 14)	• Sleep Current	DC 4.2V@0.15uA
• Buttons	1 x Reset Button + 1 x User Button	• Working Current	IR emission mode: DC 4.2V@148.07mA Keyboard mode: DC 4.2V@138.93mA
• Grove	1 x HY2.0-4P	• Operating Temperature	0 ~ 40°C
• Battery Capacity	120mAh + 1400mAh (in base)		
• Screen	ST7789V2 @ 1.14-inch, 240 x 135px		

Cardputer v1.1 is a high-performance card computer designed for engineers, offering a comprehensive upgrade over the original Cardputer. The new version features the brand new StampS3A main controller, with optimized antenna and button design for the core module, significantly enhancing system stability and user experience.



StickC-Plus2

SKU: K016-P2

• SoC	ESP32-PICO-V3-02 240 MHz dual-core, Wi-Fi, 2MB PSRAM, 8MB Flash	• Buzzer	On-board passive buzzer
• Input Voltage	5V@500mA	• IMU	MPU6886
• Interface	USB Type-C × 1, HY2.0-4P (I2C + I/O + UART) × 1	• Antenna	2.4 GHz 3D antenna
• LCD Screen	1.14-inch, 135 × 240 Color TFT LCD, ST7789V2	• External Pins	G0, G25/G26, G36, G32, G33
• Microphone	SPM1423	• Battery	200mAh@3.7V, inside
• Buttons	User Buttons × 3	• Product Size	48.0 × 24.0 × 13.5mm
• RTC	BM8563	• Product Weight	16.7 g
• LED	Green LED × 1 (non-programmable, sleep indicator) Red LED × 1 (shares control pin G19 with IR emitter)		

StickC-Plus2 is an iterative version of the StickC Plus. Its main control uses the ESP32-PICO-V3-02 chip, which supports Wi-Fi. Inside its compact body, it integrates a variety of hardware resources, such as infrared, RTC, microphone, LED, IMU, buttons, and buzzer. It features a 1.14-inch TFT screen driven by ST7789V2 with a resolution of 135 x 240. The battery capacity has been increased to 200mAh.



Portable Tool



Wearable Prototypes



Educational Tool



Mini IoT Controller

Main Controller

Controllers-Core



CoreS3

SKU: K138

Third-generation main controller of the M5Stack development-kit series.



Core2

SKU: K010

The second generation main unit in the M5Stack development kit series.



Core2 For AWS

SKU: K010-AWS

A dedicated kit for AWS IoT learning projects. It consists of the M5Stack Core2 main control unit and the M5GO-Bottom for AWS expansion base.



CoreS3-SE

SKU: K128-SE

A lightweight version of the third-generation CoreS3 host in the M5Stack development kit series.



CoreMP135

SKU: K135

An integrated Linux industrial control host based on the STM32MP135DAE7 chip.



CM4Stack

SKU: K127/K127-US/K127-EU

An all-in-one micro host based on the Raspberry Pi CM4 core board.



Basic v2.7

SKU: K001-V27

A cost-effective IoT entry-level main controller. It uses the Espressif ESP32 chip.



Tough

SKU: K034

An industrial-grade programmable embedded controller. It uses the Espressif ESP32 as the main control chip.



Faces Kit

SKU: K005

A collection of functional panels. The kit includes three commonly used functional panels.



Fire v2.7

SKU: K007-V27

A cost-effective Wi-Fi IoT controller. It uses the Espressif ESP32 main control chip.



M5GO IoT Kit v2.7

SKU: K006-V27

A cost-effective IoT starter kit. The kit includes the M5GO core controller + 6 expansion units with different functions.



Industrial Automation



Smart Home Control



IoT Prototyping & Education

Controllers-Stick



StickC-Plus2

SKU: K016-P2

The iterative version of StickC-Plus. It is powered by the ESP32-PICO-V3-02 chip.



StickC-Plus

SKU: K016-P

The large-screen version of the M5StickC. Its main controller uses the ESP32-PICO-D4 module.



StickT2

SKU: K016-T2

A compact and exquisite infrared thermal imager. It adopts the latest FLIR Lepton 3.0 long-wave infrared (LWIR) camera core.

Controllers-Atom



Atom-Lite

SKU: C008

A very compact development board in the M5Stack development kit series.



Atom-Matrix

SKU: C008-B

A very compact development board in the M5Stack development kit series.



Atom-Echo

SKU: C008-C

A programmable smart speaker based on the ATOM design, with a very compact size of only 24 x 24 x 17mm.



AtomS3

SKU: C123

A highly integrated programmable controller based on the ESP32-S3 main controller.



AtomS3-Lite

SKU: C124

A programmable controller from the Atom series in the M5Stack development kit series.



AtomS3U

SKU: K125

A USB flash drive-shaped multifunctional development board featuring the ESP32-S3 chip from Espressif.



AtomS3R

SKU: C126

A highly integrated IoT programmable controller based on the ESP32-S3 main control.



AtomS3R-CAM

SKU: C126-CAM

A mini IoT programmable controller integrated with a camera, featuring the ESP32-S3-PICO-1-N8R8 main controller.



AtomS3R-M12

SKU: C126-M12

An IoT programmable controller integrated with an M12 camera.



Industrial Automation



Smart Home Control



IoT Prototyping & Education

Controllers-Stamp



Dial v1.1

SKU: K130-V11

A high-performance, multifunctional embedded development board that has been fully upgraded from the original Dial product.



Capsule

SKU: K129

A multifunctional embedded development platform using StampS3 as the core controller.



Air Quality

SKU: K131

An integrated low-power air quality monitoring device.



DinMeter

SKU: K134

An embedded development board that adheres to the 1/32 DIN standard.



VAMeter

SKU: K136

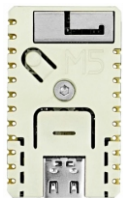
A professional programmable high-precision power meter, primarily used for high-accuracy voltage and current measurements.



Stamp-Pico

SKU: C050-B

A plug-and-play, cost-effective Wi-Fi minimal core board.



Stamp-C3U

SKU: C122-B

A cost-effective RISC-V minimal core board. It uses the Espressif ESP32-C3 as the main control chip.



Stamp-C3

SKU: C056-B

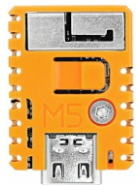
A cost-effective RISC-V minimal core board. It uses the Espressif ESP32-C3 as the main control chip.



Stamp-S3

SKU: S007

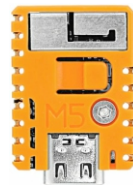
A highly integrated embedded main control core module. It uses the Espressif ESP32-S3FN8 main control chip.



Stamp-S3 PIN2.54

SKU: S007-PIN254

A highly integrated embedded main control core module. It uses the Espressif ESP32-S3FN8 main control chip.



Stamp-S3 PIN1.27

SKU: S007-PIN127

A highly integrated embedded main control core module. It uses the Espressif ESP32-S3FN8 main control chip.

Industrial Automation

Smart Home Control

IoT Prototyping & Education

Controllers-E-Paper



PaperS3

SKU: C139

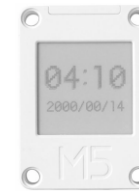
A uniquely designed low-power touch-enabled e-ink screen main control device launched by M5Stack.



Paper v1.1

SKU: K049-B

A touch-enabled e-ink screen main control device launched by M5Stack, featuring the ESP32-D0WDQ6-V3 controller.



CoreInk

SKU: K048

A main control device with an E-Ink display launched by M5Stack, using the ESP32-PICO-D4 controller.

Controllers-Others



Station-Bat

SKU: K124-B

A versatile industrial-grade programmable embedded controller. It uses the Espressif ESP32 as the main control chip.



Station-485

SKU: K123

A versatile industrial-grade programmable embedded controller. It uses the Espressif ESP32 as the main control chip.



NanoC6

SKU: C125

A compact, low-power IoT development board in the M5Stack development kit series.



A large, stylized blue number '2' is positioned on the left side of the slide, partially overlapping the main text area.

Expandable Functional Modules

Communication | I/O | Driver | Power

Module

Designed to enhance the capabilities of your main controller, our functional modules offer plug-and-play expansion for communication, power management, storage, display, motor control, and more. Build smarter, more complex systems with stackable or connectable modules that seamlessly integrate with the M5Stack ecosystem.

Features



Seamless Integration

All modules are designed for plug-and-play compatibility with M5Stack main controllers, ensuring quick setup and stable communication.



Versatile Functions

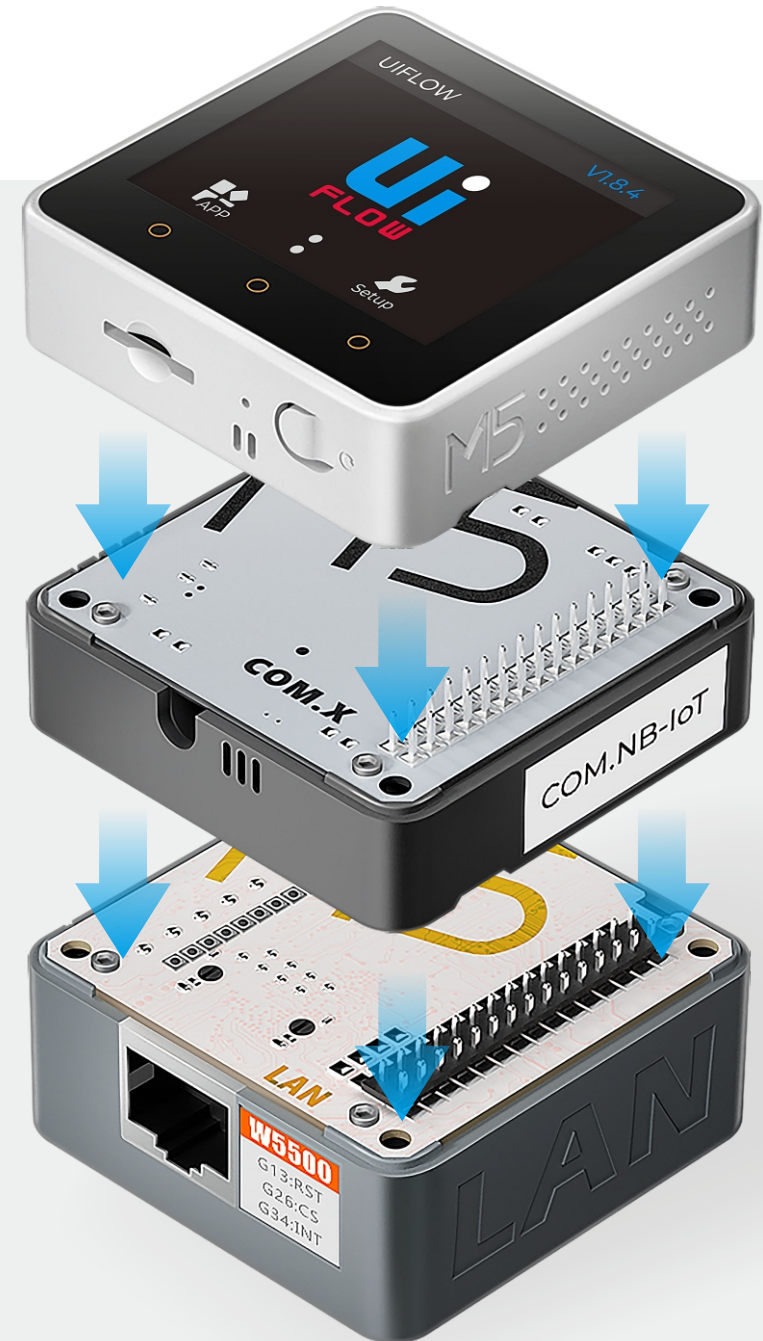
From motor drivers to GPS, LoRa, NB-IoT, relays, and battery management—expand your device's capabilities to fit any application.



Modular & Stackable Design

Standardized form factors and stacking interfaces allow flexible hardware combinations without the need for soldering or complex wiring.

60+ Stack modules for versatile expansion



Designed for easy stacking, these modules expand your M5Stack system with audio, GPS, motor control, battery management, communication buses, and more. Simply stack to customize your setup—no soldering needed.



Audio
SKU: M144



GPS v2.0
SKU: M003-V2



Gateway H2
SKU: M141



COMMU
SKU: M011



GNSS
SKU: M135



LoRa868 v1.1
SKU: M029-V11



LoRa433 v1.1
SKU: M005-V11



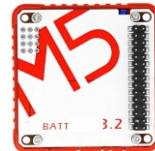
Fan v1.1
SKU: M013-V11



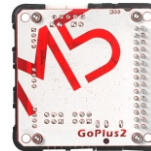
4EncoderMotor
SKU: M138



4EncoderMotor v1.1
SKU: M138-V11



Battery
SKU: M002



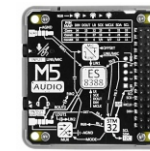
GoPlus2
SKU: M025-B



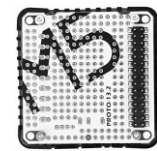
ExtPort For Core2
SKU: M123



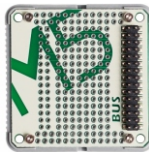
Battery 13.2
SKU: M120



Proto
SKU: M001



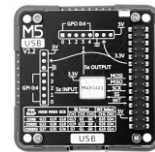
Proto 13.2
SKU: M032



BUS
SKU: M024



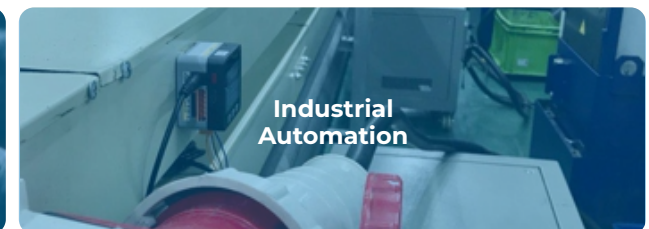
HMI
SKU: M129



USB v1.2
SKU: M020-V12



LLM Kit
SKU: K144



Stack-Module 13.2 offers advanced connectivity and control with Zigbee, LoRaWAN, LTE, and CAN power modules. It also includes motor drivers, relays, servo controls, displays, and precise measurement modules — all designed for easy stacking and seamless integration.



COM.X Zigbee
SKU: M031-Z



COM.X LoRaWAN470
SKU: M031-C2



COM.X LTE
SKU: M031-A



COM.X NBIoT
SKU: M031-B



COM.X NBIoT-CN
SKU: M031-B2



COM.X Cat1
SKU: M031-H



LAN 13.2
SKU: M136



PwrCAN 13.2
SKU: M139



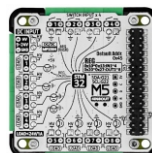
GRBL 13.2
SKU: M035



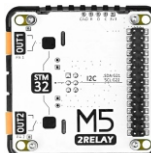
ODrive 13.2
SKU: M036/M036-B



Servo2 13.2
SKU: M014-B



4In8Out 13.2
SKU: M122



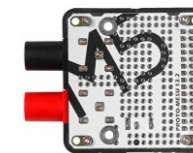
2Relay 13.2
SKU: M124



Steptomotor Driver v1.1
SKU: M039-V11



4Relay v1.1
SKU: M121-V11



Proto-Meas
SKU: M033



RCA 13.2
SKU: M125



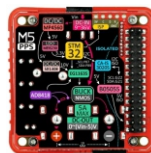
Display 13.2
SKU: M126



RS232F 13.2
SKU: M130



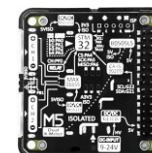
RS232M 13.2
SKU: M131



PPS 13.2
SKU: M137



ECG 13.2
SKU: M034



Dual Kmeter
SKU: M127



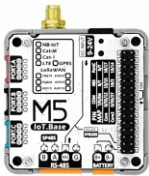
AIN4-20mA
SKU: M133

Remote
Monitoring Systems

IoT Device
Development

Industrial
Automation

Stack-Base offers versatile base units and power solutions, including IoT connectivity, PoE, LAN, battery bases, chargers, and specialized modules for industrial and environmental applications—providing a solid foundation for your M5Stack system.



IoT Base CatM
SKU: M119



Thermal Online
SKU: K119



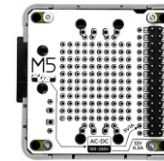
PoE v1.2
SKU: K012-C-V12



LAN v1.2
SKU: M031-B



PM2.5
SKU: M134



AC Power
SKU: K116



M5GO Bottom
SKU: A014



M5GO Bottom2
SKU: A014-C



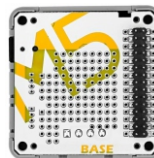
Base AAA
SKU: A122



M5GO Charger
SKU: A016



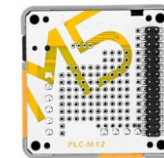
Base X
SKU: K037



Base26 v1.1
SKU: K026-B



Base15 v1.1
SKU: K025-B



PLC-M12 v1.1
SKU: K011-B-V11



Base DIN
SKU: M132



M5GO Bottom3
SKU: A014-D



Bottom v1.1
SKU: C001-C2



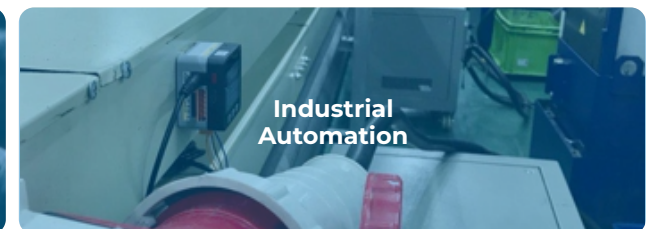
Base DMX
SKU: M128



**Remote
Monitoring Systems**



**IoT Device
Development**



**Industrial
Automation**

For Atom

Compact, purpose-built modules instantly expand functionality—communication, sensing, power management, motion control. Just stack or snap them in, power up, and start coding. No soldering, no hassle.

Features



Small Form Factor



Low Power Consumption

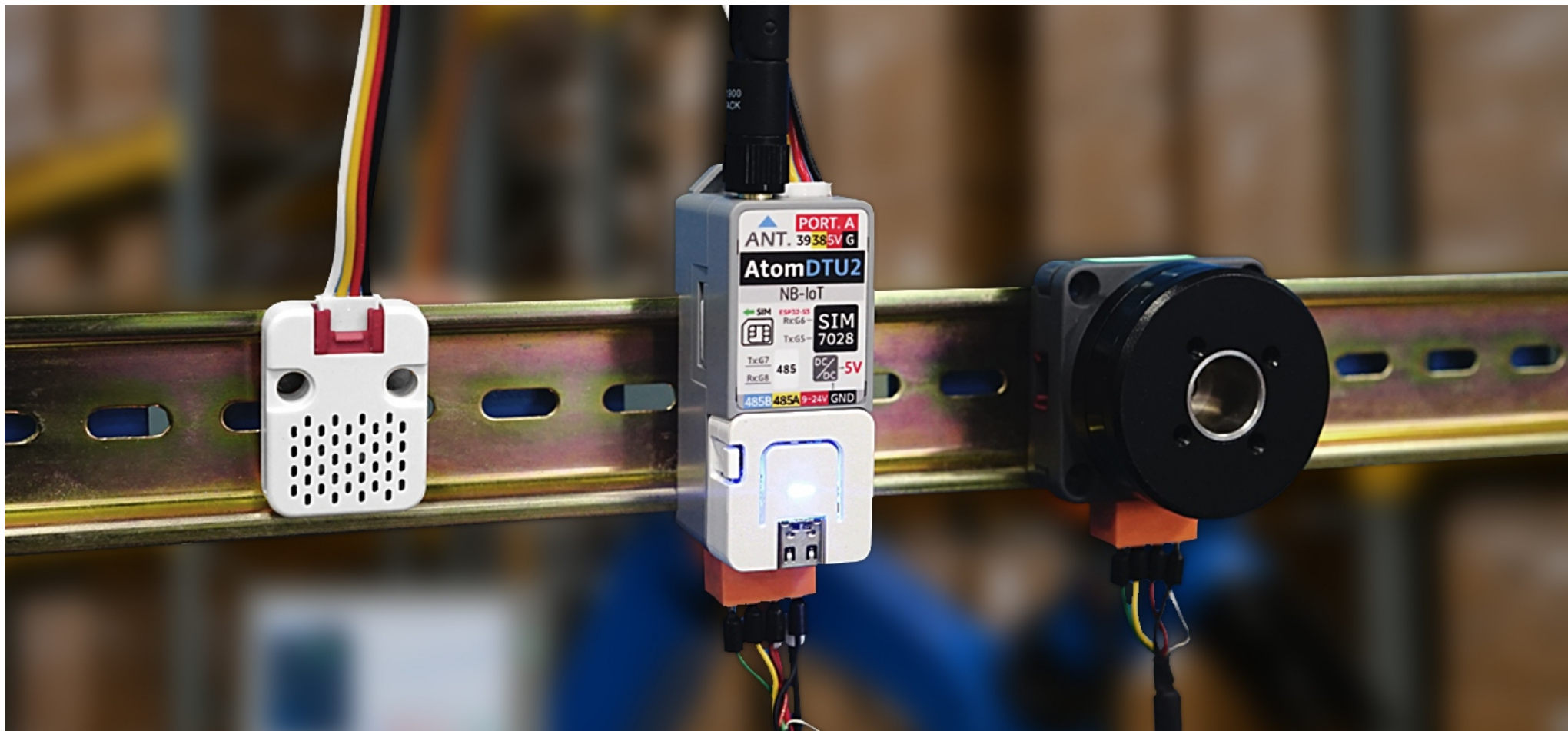
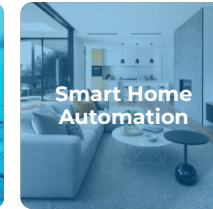


Easy Stack/Connect Interface



Versatile Functions

Applications



For Atom-Atom Kit



Switch
SKU: K042



Switch-D
SKU: K042-D



Socket
SKU: K055



Socket-CN
SKU: K055-CN



JoyStick
SKU: K137

For Atom-Atom DTU



NBLoT2
SKU: K059-B



LoRaWAN-CN470
SKU: A152-CN470



LoRaWAN-EU868
SKU: A152-EU868



LoRaWAN-US915
SKU: A152-US915

For Atom-Atom Tail



Tail Bat
SKU: T001



Tail RS485
SKU: T002

For Atom-Atomic Base



Battery Base
SKU: A151



Echo Base
SKU: A149



Atomic
SKU: A077



Hub Proto
SKU: K039



Atom Mate
SKU: A086



PortABC
SKU: A130



QRCode2 Base
SKU: A133-B



RS485
SKU: A131



RS232 Base
SKU: A136



SPK Base
SKU: A098



TFCard Base
SKU: A135



CAN Base
SKU: A103



PWM Base
SKU: A114



PoE Base
SKU: A091



GPS Base
SKU: A134



HDriver Base
SKU: A092



Motion Base v1.1
SKU: A090-V11



Display Base
SKU: A115



GPS Base V2.0
SKU: A134-V2



Stepmotor Base
SKU: A132

For Stamp

Designed for Stamp series, these compact modules enable flexible expansion of sensing, communication, power, and control functions with a simple plug-and-play design.

Features



**Compact and
Lightweight**

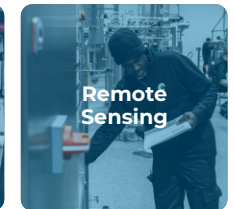
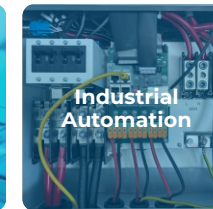


**Low Power
Consumption**



**Easy to Connect
and Stack**

Applications



For Stamp-Wireless

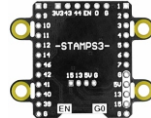
For Stamp-Others



Stamp CatM
SKU: S003



Stamp Cat1
SKU: S004



**Stamp-S3
BreakOut**
SKU: A129



Stamp IO
SKU: S002



PWR485
SKU: S001



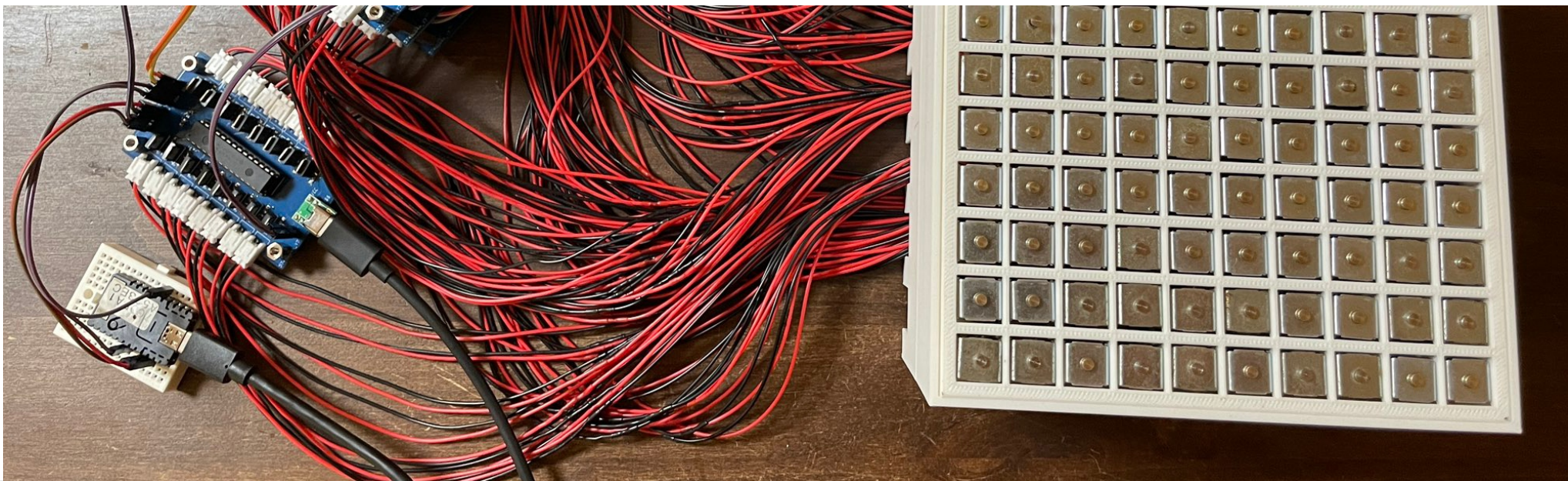
Stamp ISP
SKU: S006



**Timer
Power**
SKU: S005



GroveBreakOut
SKU: A144





Sensors & Actuators

Environmental | Motion | Light

UNIT

A wide range of sensors and actuators designed to bring rich sensing, control, and connectivity to your projects. Seamlessly integrate environmental, motion, audio, wireless, and industrial-grade modules for versatile IoT and embedded solutions.

Features



Wide Sensor & Actuator Range



Industrial & Durable



Wireless & Wired



Stackable & Easy Integration

140+ units to streamline development and drive innovation.

Applications



I2C



UART

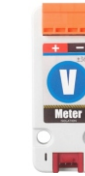
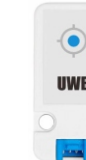


GPIO



ELSE

Unit-Sensor

									
Gateway H2 SKU: U195	ASR SKU: U194	Ultrasonic-I2C SKU: U098-B1	ToF SKU: U010	Ultrasonic-IO SKU: U098-B2	Limit SKU: U145	PIR SKU: U004	OP90 SKU: U057	OP180 SKU: U058	Weight SKU: U030
									
Scales SKU: U108	Gesture SKU: U127	Color SKU: U009	Thermal SKU: U016	Light SKU: U021	Dlight SKU: U136	A-meter SKU: U086	V-meter SKU: U087	NCIR SKU: U028	Heart SKU: U029
									
Finger SKU: U008	Mini IMU SKU: U095	Accel SKU: U056	ENV-III SKU: U001-C	ENV-IV SKU: U001-D	ENV-Pro SKU: U169	Co2 SKU: U103	Mini TVOC/eCO2 SKU: U088	Earth SKU: U019	Tube Pressure SKU: U130
									
Hall SKU: U084	MIC SKU: U096	Mini PDM SKU: U089	Thermal2 SKU: U149	NCIR2 SKU: U150	Mini BPS v1.1 SKU: U090-B	CO2L SKU: U104	KMeter-ISO SKU: U133-V11	AIN4-20mA SKU: U162	AC Measure SKU: U164
									
Mini IMU-Pro SKU: U171	ToF4M SKU: U172	Reflective IR SKU: U175	Mini Scales SKU: U177	Weight-I2C SKU: U180	TMOS PIR SKU: U185	Grove to Grove ExtEncoder SKU: U148	DAC2 SKU: U195	DAC2 SKU: U012-B	UWB SKU: U100

Unit-Actuator



Buzzer
SKU: U132



Vibrator
SKU: U059



Fan
SKU: U063



FlashLight
SKU: U152



Roller485
SKU: U182



Roller485-Lite
SKU: U182-Lite



RollerCAN
SKU: U188



RollerCAN-Lite
SKU: U188-Lite



4Relay
SKU: U097



2Relay
SKU: U131



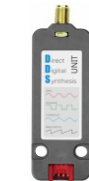
Relay
SKU: U023



SSR
SKU: U122



ACSSR
SKU: U139



DDS
SKU: U105



DCSSR
SKU: U140



IR
SKU: U002



RF433T
SKU: U114



RF433R
SKU: U113



Laser RX
SKU: U065



Laser TX
SKU: U066

Unit-Extension



EXT.IO2
SKU: U011-B



Hub
SKU: U006



Pahub v2.0
SKU: U040-B



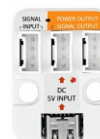
PaHub v2.1
SKU: U040-B-V21



Pbhub v1.1
SKU: U041-B



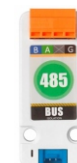
3.96
SKU: U020



TypeC to Grove
SKU: U151



RS485
SKU: U034



RS485-ISO
SKU: U094



CAN
SKU: U085

Unit-Driver



HBridge
SKU: U160



8Servos
SKU: U165



Hbridge v1.1
SKU: U160-V11



BLDC Driver
SKU: U181

Unit-Audio



Synth
SKU: U178



MIDI
SKU: U187



RCA
SKU: U155



DMX
SKU: U183



AudioPlayer
SKU: U197

Unit-HMI



OLED
SKU: U119



LCD
SKU: U120



DigiClock
SKU: U146



Glass
SKU: U158



Mini OLED
SKU: U166



Glass2
SKU: U158-B



RGB
SKU: U003



RGB LED Strip
SKU: A093



RGB LED
SKU: A035



NeoHEX
SKU: A045-B



HEX
SKU: U108



Neco
SKU: U163



Scroll
SKU: U186



Joystick2
SKU: U024-V2



Puzzle
SKU: U193



Joystick v1.1
SKU: U024-C



Angle
SKU: U005



Encoder
SKU: U135



Fader
SKU: U123



Key
SKU: U144



Button
SKU: U027



Dual Button
SKU: U025



CardKB v1.1
SKU: U035-B



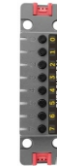
M5Bit
SKU: A051



8Angle
SKU: U154



8Encoder
SKU: U153



ByteButton
SKU: U192



ByteSwitch
SKU: U191

Unit-Cameras



TimerCamera -X
SKU: U082-X



TimerCamera -F
SKU: U082-F



Camera-Battery
SKU: A068



CamS3-5MP
SKU: U174-B



UnitV2
SKU: U078-D



UnitV2-M12
SKU: U078-M12



UnitV2-USB
SKU: U078-USB



OV7740
SKU: U078-C



UnitV-M12
SKU: U078-V-M12



PoECAM-W v1.1
SKU: U121-B-V11

Unit-Wireless



LoRaWAN-CN470

SKU: U184-CN470



LoRaWAN-AS923

SKU: U184-AS923



LoRaWAN-EU868

SKU: U184-EU868



LoRaWAN-US915

SKU: U184-US915

CatM
SKU: U128NB-IoT-CN
SKU: U112NB-IoT2
SKU: U111-BZigBee
SKU: U110CatM+GNSS
SKU: U137LoRaE220-920
SKU: U170

LoRaE220-433

SKU: U170-433

GPS v1.1
SKU: U128GPS SMA
SKU: U190

Unit-Ethernet

MQTT
SKU: U129MQTT-PoE
SKU: U129-BPoESP32
SKU: U138

Unit-Others

ID
SKU: U124Mini CAN
SKU: U179QRCode
SKU: U173TimerPWR
SKU: U189Proto
SKU: U022Mini Proto
SKU: U064Power
SKU: U125

HAT

Small, 8-pin stackable modules to quickly add sensors, actuators, audio, and control functions—ideal for compact and portable projects.

Features



Compact Size



8-Pin Stackable Design



Easy Plug-and-Play Integration

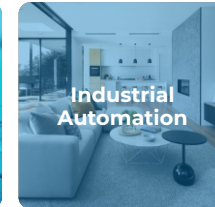


Versatile Functionality

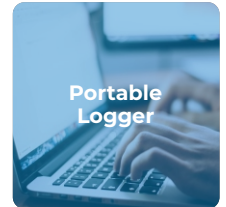
Applications



Smart Building & Environment



Industrial Automation



Portable Logger



For Stick-Sensor



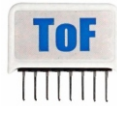
NCIR
SKU: U061



Heart
SKU: U118



PIR
SKU: U054



ToF
SKU: U072



Dlight
SKU: U134



Thermal
SKU: U062



ENV-III
SKU: U053-D



ADC
SKU: U069



ADC v1.1
SKU: U069-V11



Finger
SKU: U074



DAC2
SKU: U068-B

For Stick-Actuator

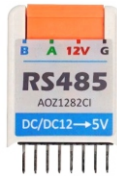


Servo
SKU: U075



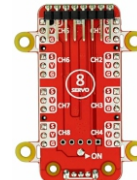
Vibrator
SKU: U159

For Stick-Extension



RS485
SKU: U067

For Stick-Driver



8Servos v1.1
SKU: U076-B



Cback Driver
SKU: A100

For Stick-Audio



SPK
SKU: U055



SPK2
SKU: U055-B

For Stick-HMI



Joystick
SKU: U073



JoyC
SKU: U079



Mini EncoderC
SKU: U157



Mini JoyC
SKU: U156

For Stick-Others



Proto
SKU: U134



T-Lite
SKU: K126

A large, stylized blue number '4' is positioned on the left side of the image, serving as a background element for the page number.

Hobby & Accessories

DIY Kits | Cables | Mounts

HOBBY

Explore creative robotics, drones, and audio devices designed for enthusiasts and makers. Build, experiment, and innovate with easy-to-use kits and modules.

Features



Robotics & Drone Kits

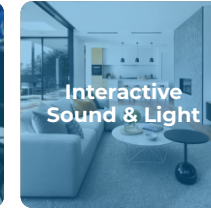


Easy Integration



Maker-Friendly

Applications



Hobby-Drone



Stamp-Fly
SKU: K138

Hobby-Robot



LidarBot
SKU: K017-C



Bala2-Fire
SKU: K014-E



BalaC-Plus
SKU: K038-B



RoverC-Pro
SKU: K036-B



BugC2
SKU: K033-C

Hobby-Others



Printer
SKU: K118



Demo Board
SKU: K024-B



Scales Kit
SKU: K121



6060-Push
SKU: K028



**PM2.5 Air
Quality Kit-SHT30**
SKU: K023-B

Accessories-Cable



Grove Cable
SKU: A034



Grove Y Cable
SKU: A150



**Shielded
Twisted
Pair Cable**
SKU: A088



PoE Splitter
SKU: A139



**Magnetic
Type-C Cable**
SKU: A143



**PwrCAN
Cable**
SKU: A146

Accessories-Servo



Catch
SKU: U102



**Servo Kit
180°**
SKU: A076-B



**Servo Kit
360°**
SKU: A076-C



SG90 Servo
SKU: A076

Accessories-Connector



**Grove to
Dupont**
SKU: A096



Grove to 4P
SKU: A099



**HY2.0-4P
SMD**
SKU: A118



Grove T
SKU: U039-B



Grove to Grove
SKU: A040



**Grove to
USB-C**
SKU: A140



**Bus Socket
DIP 13.2**
SKU: A089



**BAVG to
Socket**
SKU: A104



485T
SKU: A071



**1.27-Socket Kit
for Stamp-S3**
SKU: A138

Accessories-Others



Guide Rail
SKU: A111



SandwichC
SKU: A123



Screw
SKU: A050-B



Frame
SKU: A013



KeyCap
SKU: A153



Module Proto Frame
SKU: A119



Panel Frame
SKU: A125



Proto Case
SKU: A124



ESP32 Downloader Kit
SKU: A105



Capsule Proto
SKU: A141



StickC-Plus2 Watch Kit
SKU: K016-H2



StickC-Plus Watch Kit
SKU: K016-H



Watch Dev Kit v1.1
SKU: A128-B



Cardputer Accessory Kit
SKU: A145-V033



Stamp Fly Accessory Kit
SKU: A147



CLIP-B
SKU: A148-B



CLIP-A
SKU: A148-A



Corner
SKU: A036



Nut
SKU: A037



Connector
SKU: A052



Software Platform

UIFlow – Graphic Coding IDE

UIFlow 2.0

Graphic Coding IDE
Empowering IoT Innovation

UIFlow is a browser-based programming tool that simplifies coding with intuitive block-based logic. Each block serves a specific function to control the M5GO, making it easy for beginners to grasp programming concepts step by step. As you progress, you'll naturally transition to Python—a powerful yet beginner-friendly programming language that UIFlow is built upon.

Edit control

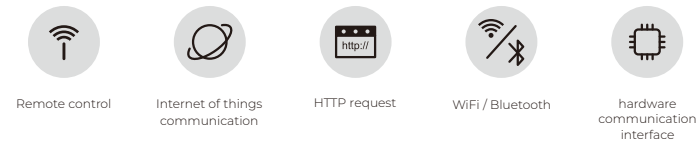
Programming basis



Logical progression



Advanced functions

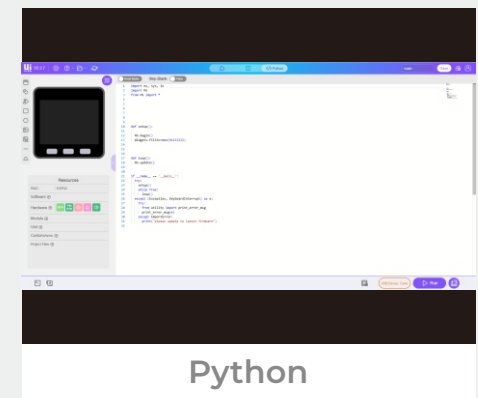
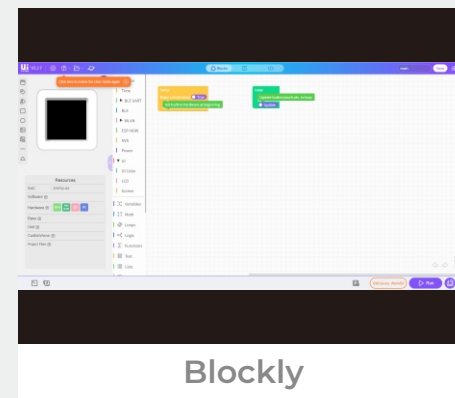
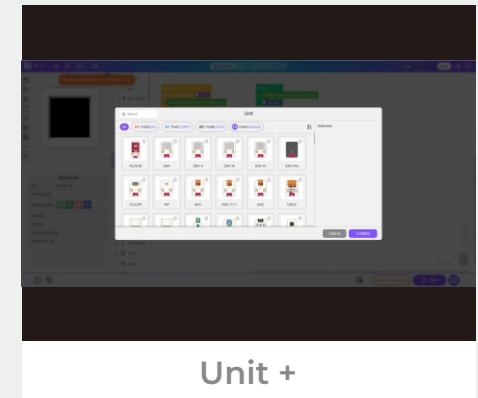
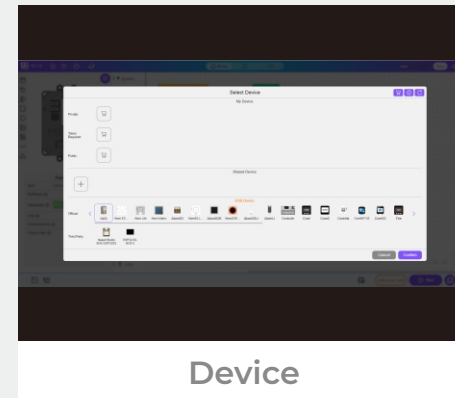
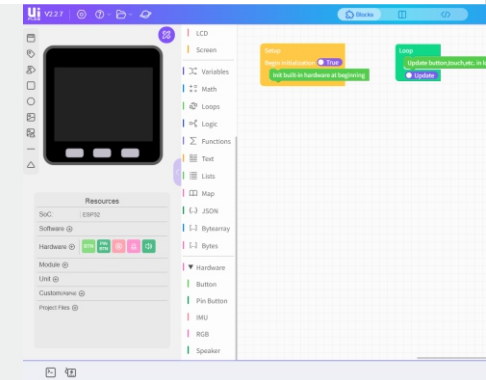


Enrich and expand



UIFlow Characteristic

- Seamlessly switch between blockly and Python.
- Use the remote feature to control the M5 from your smartphone.
- Design your projects UI with our intuitive UI designer.
- Develop IOT applications with ease.
- Program your M5 on any smart device.



Vibrant Community

Our vibrant community fuels innovation by sharing ideas, code, and projects, with access to 900+ firmware packages available in M5Burner, continuously pushing the boundaries of IoT and embedded systems.



Hackster

Share projects and connect with makers
<https://www.hackster.io/m5stack>



GitHub

Open-source code repositories
<https://github.com/m5stack>



Discord

Live chat with the community
<https://discord.gg/ysQAWBUE9Q>



X

Updates and news
<https://x.com/M5Stack>



LinkedIn

Build meaningful connections
<https://www.linkedin.com/company/m5stack>



Instagram

Updates and news
<https://www.instagram.com/m5stack>



YouTube

New releases and UIFlow demos
<https://www.youtube.com/m5stack>



Facebook

Updates and news
<https://www.facebook.com/M5Stack>



148,000+

In our global maker & developer
community

84,000+

Open-source code repositories
on GitHub

900+

Firmware packages available
in M5Burner

800+

Community projects on Hackster



Marketing Activities



Industry Trade Shows

Embedded World
CES
The Things Conference
IOTE



Meet Up

Munich, Germany
Tokyo, Japan
Osaka, Japan
Fukuoka, Japan
Hiroshima, Japan
Hakodate, Japan
Kanazawa, Japan
Shenzhen, China



Maker Faire

Bay Area
Rome
Kyoto
Tokyo
Bangkok
Shenzhen

Annual Online Contest



Pioneering Technological Advancement

M5Stack provides versatile and scalable IoT solutions for various industries and commercial applications. Our platform enables clients to develop and deploy end-to-end solutions efficiently, reducing time-to-market and costs while maximizing innovation.

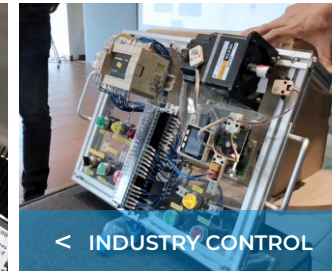


SMART RETAIL

LOW CODE



< INDUSTRY CONTROL



GAMING



SMART CITY



SMART AGRICULTURE >



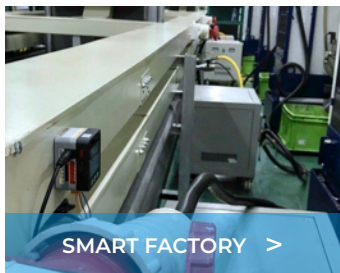
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PLUG AND PLAY



MIDI



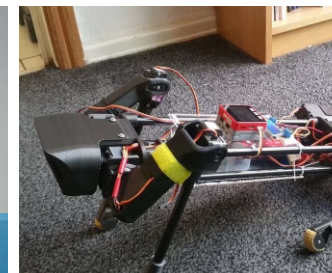
SMART FACTORY >



CUSTOMIZATION



ROBOT >



CRYPTO



Build Fast, Stack Smart.

M5Stack Technology Co., Ltd
Email: sales@m5stack.com
Website: www.m5stack.com

