



M5GO IoT Starter Kit

SKU: K006

This **M5GO IOT Kit** is a multi-Unit feast with 6 M5units inside (ENV, IR, RGB, PIR, ANGLE, HUB). Just like other M5Stack development kit, M5GO is powered by ESP32.

Every M5stack development kit can be programmed through Arduino IDE, WebIDE UIFlow, Micropython, and Blockly, simplifying the development process for those requiring a joint hardware and software solution. Not only does M5stack have far-reaching IoT applications in industry, agriculture, and home, but it also empowers students to learn to code in STEM classrooms.

This M5GO kit is specifically designed for STEM education. The pack includes 1 M5GO controller + 6 M5units + plenty of accessories. Having all those goods, together with the Blockly program platform, allows the school students to explore the engineering world, making their own IoT product and implement brilliant ideas into real life.

Product Features

- 5V DC power supply
- USB Type-C
- ESP32-based
- 16 MByte flash + 520K RAM
- MPU9250
- Speaker, 3 Buttons, LCD(320*240), 1 Reset
- 2.4G Antenna: Proant 440
- TF card slot (16G Maximum size)
- Battery Socket & 600 mAh Lipo Battery
- Extendable Pins & Holes
- Grove Port
- M-Bus Socket & Pins
- Development Platform [UIFlow](#), [MicroPython](#), [Arduino](#)

ESP32 Features

- 240 MHz dual core Tensilica LX6 microcontroller with 600 DMIPS
- Integrated 520 KB SRAM
- Integrated 802.11b/g/n HT40 Wi-Fi transceiver, baseband, stack and LWIP
- Integrated dual mode Bluetooth (classic and BLE)
- Hall sensor
- 10x capacitive touch interface
- 32 kHz crystal oscillator
- PWM/timer input/output available on every GPIO pin
- SDIO master/slave 50MHz
- SD-card interface support

Kit includes

- 1x white M5Core controller
- 1x M5GO Base(LEGO compatible)
- 6x Units(ENV, IR, RGB, PIR, ANGLE, HUB)
- 4x LEGO connectors and bricks
- 3x GROVE cable
- Type-C USB cable
- User Manual



<https://m5stack.com/products/m5go-iot-starter-kit-stem-education/10-2-19>