

ATOM QR-CODE Kit

SKU:K041-B



Description

ATOM QR-CODE is an **M5Atom** compatible module for reading **Barcode/QR-codes**. The product includes two parts: an M5Atom Lite unit and code scanning module. It supports **6 kinds of 2D codes and 19 kinds of 1D codes**. It has built-in **lighting LED**, which can easily identify codes even in a dark environment. The green LED is convenient for focusing and aiming. The effective recognition accuracy of **high-resolution CMOS imaging reaches 5mil**. In addition, it has a variety of reading modes, which can be adjusted to **automatic continuous trigger or manual trigger as required**. The module has its own **buzzer**, which has different prompt sound effects in different states. The module also supports adding **custom prefix/suffix to the data, defining multi-national keyboard, data editing and many other functions**, it uses **TTL-232 for communication**, and can easily use serial port for data transmission. It can be easily used in **Arduino or UIFlow programming**, You can send the scanned data to the receiver for processing via wired or wireless connection through M5Atom Lite.

Features

- Compatible with Atom Matrix/Atom Lite
- Built in lighting and focus LED
- Support Wi-Fi Based on esp32
- UART/TTL communication
- Manual and automatic scanning mode
- Light and sound reminders

- Multiple output formats
- Data can be pre-edited and hidden
- Rich custom instructions
- Support RAW / GBK / Unicode
- Support Arduino、UIFlow

Includes

- 1x ATOM QR-CODE
- 1x M5Atom Lite
- 1x Hex Key
- 1x M2*8 Hexagon socket cup head machine screw
- 1x TYPE-C USB Cable (20cm)

Applications

- Cash register scanning
- Barcode/QR-code input device
- Warehouse inventory

Specification

Resources	Parameters
Sensor	640x480 CMOS
Illumination	White LED
Focus	GreenLED
Read QR code type	QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec
Read Barcode type	EAN, UPC, Code 39, Code 93, Code 128, UCC/EAN 128, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, MSI-Plessey, GS1 Databar, Code 11, Industrial 25, Standard 25 Plessey, Matrix 2 of 5

type	Standard 2D, 1D barcode, Matrix 2-D
Resource Recognition reading accuracy	Parameters ≥5mil
Reading range	EAN-13: 50-200mm(13mil), Code39: 40-90mm(5mil 10bytes), QR Code: 25-240mm(20mil 16bytes), Data Matrix: 50-90mm(10mil 20bytes), PDF 417: 30-130mm(6.67mil 7bytes)
Contrast ratio	≥25%
Scanning angle	Rotate 360°, Pitch ±55°, Yaw ±55°
FOV	Horizontal 34°,Vertical 28°
Communication interface	UART/TTL
Voltage and Current	DC 3.3V/170mA,Standby 10mA
Case material	Plastic (PC)
Product Size	48mm × 24mm × 18mm
Package Size	55mm × 55mm × 20mm

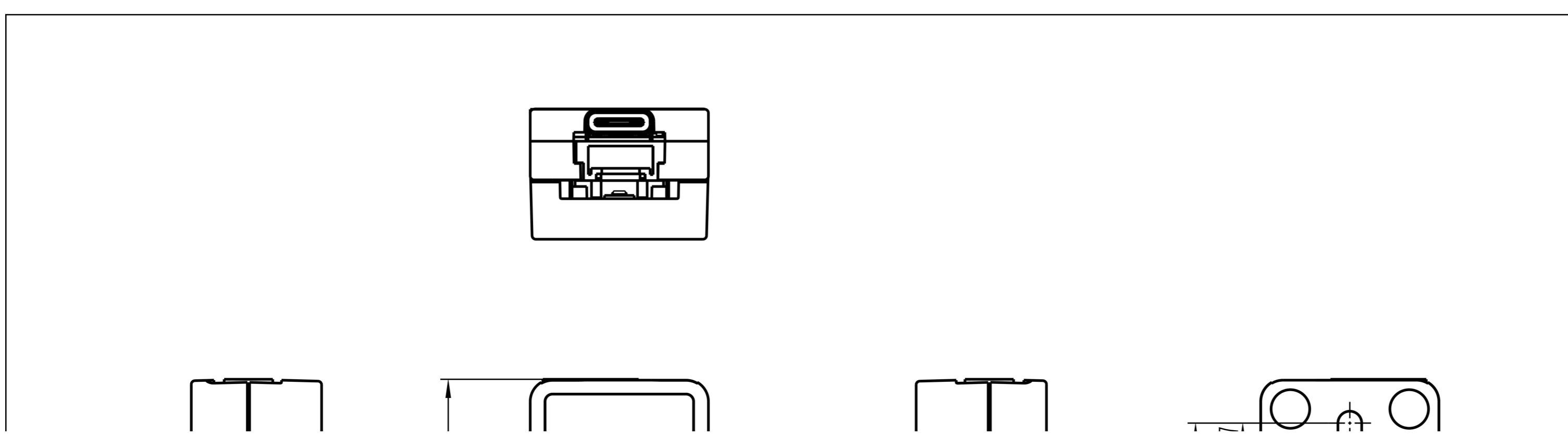
Resource Product's Weight	Parameters 17g
Package Weight	37g

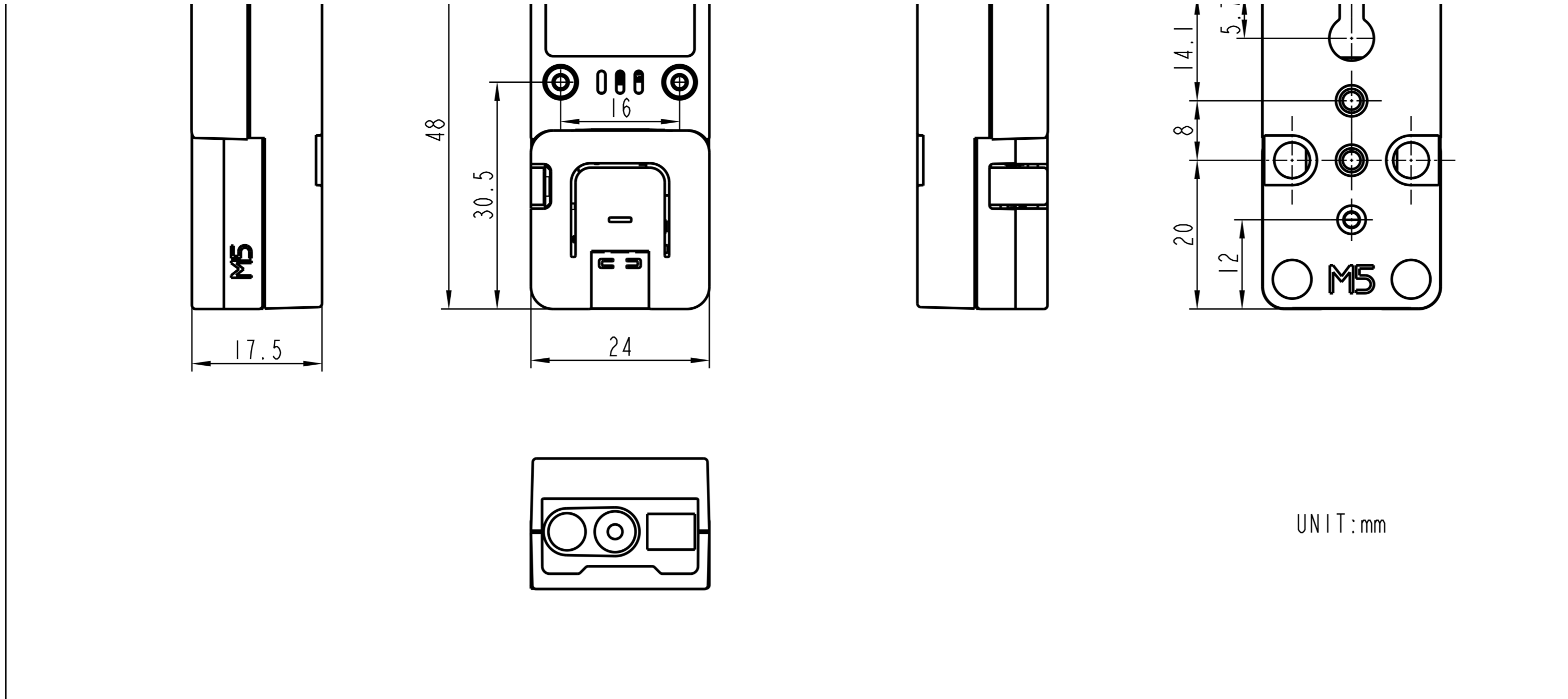


Related Link

- [QR module serial control command list](#)
- [User manual of QR code command](#)
- [Easyloader For Windows](#)
- [Easyloader For MacOS](#)
- [video](#)

Module Size





Examples

Arduino

- The Arduino key controls the scanning case
- Arduino UART controls scanning cases

UIFlow

- UIFlow UART controls scanning cases

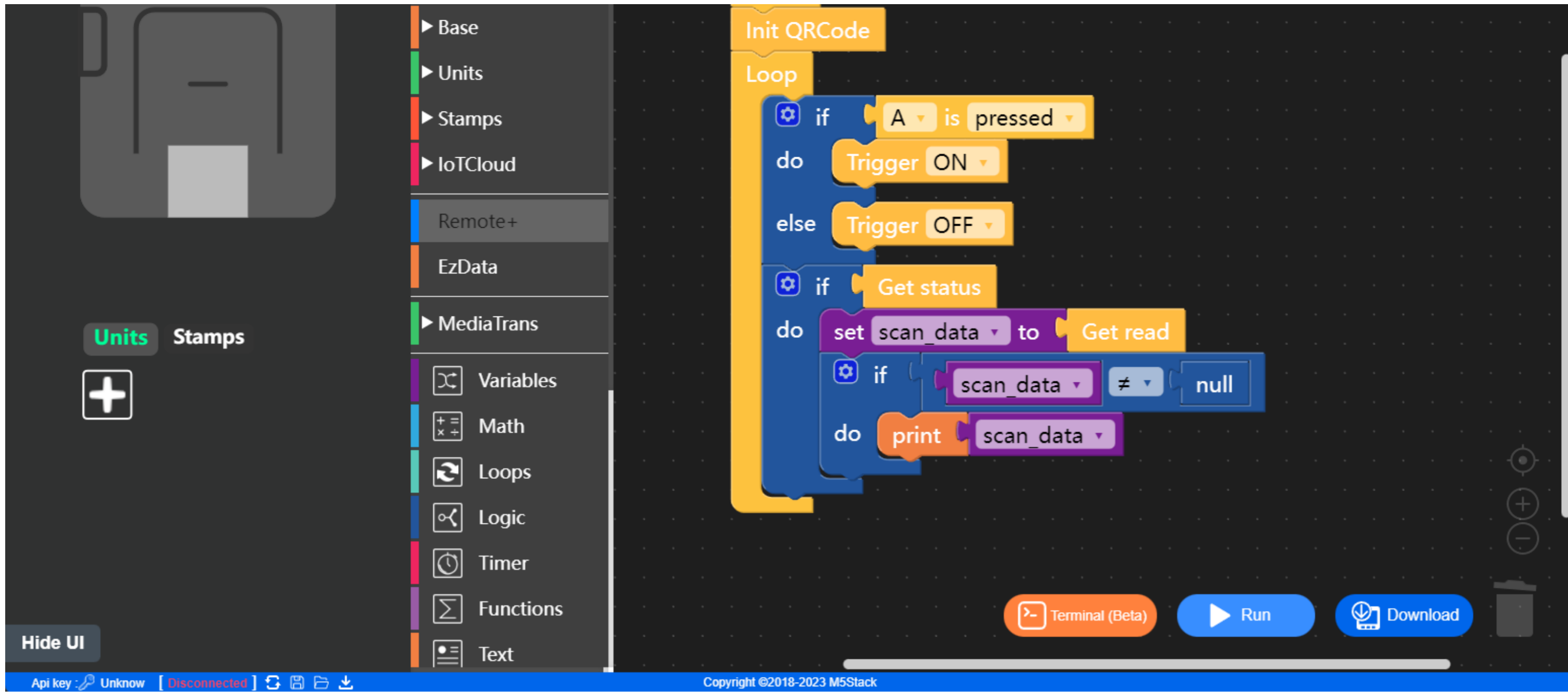
```

Setup
  uart1 set tx 19 rx 22 baud 9600 use uart 1
  Init pin0 Pin 23 mode OUT Pull PULL_UP
  Init pin1 Pin 33 mode IN Pull PULL_DOWN
  set pin0 HIGH

Loop
  if A is pressed
  do
    set pin0 LOW
  else
    set pin0 HIGH

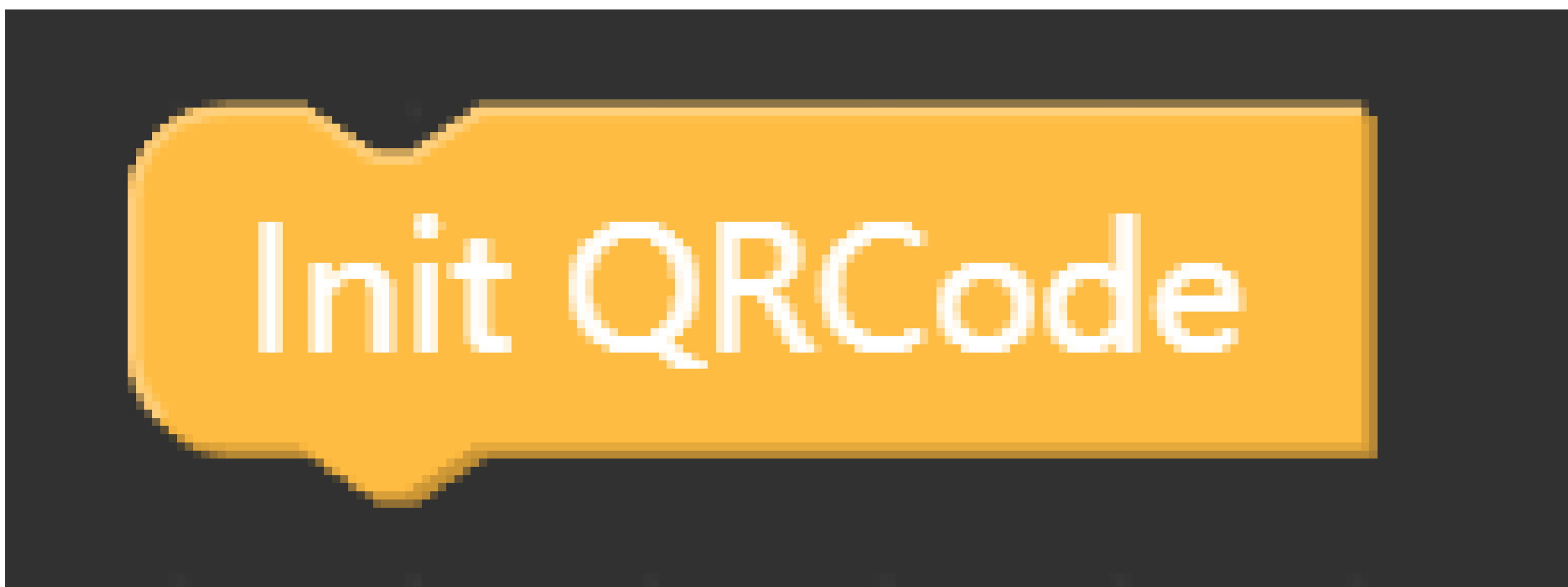
  if Get pin1 Value == 真
  do
    if uart1 remain cache
    do
      print decode uart1 read all
  
```

- ATOM QR-CODE UIFlow Example



UIFlow Blocks

- Init QRCode



- Get read



- Get status



- Trigger (ON / OFF)

Trigger

ON

