

GM77 Barcode and QR Code Scanning Module

SEN0512

Product Overview

11-30-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot GM77 Barcode and QR Code Scanning Module is designed to read barcodes or 2D codes with a scan speed of 15m/min. This module is small in size and consists of high recognition, high precision, high speed, and multiple code types. The scanning module features a 0.3-megapixel camera, auxiliary lights, white light illumination, and red light focusing that helps to identify codes in low-light environments effectively. This module also features a TTL-232 and USB two communication interfaces for more actual scenarios.



The GM77 barcode and QR code scanning module automatically senses, scans, and identifies the surrounding environment, and when triggered, it quickly recognizes and reads code. This module utilizes CMOS image recognition and core decoding algorithms to quickly recognize various barcodes and QR codes. The scanning module is plug-and-play, does not require the installation of drivers, and is compatible with many mainstream operating systems such as Windows, Linux, Android, and Mac. Typical applications include mobile payment, access control, and automatic scans and senses.

Features

- Small size
- High-efficiency recognition
- Automatically senses and scans
- Reads barcodes or 2D codes
- Multiple code types
- High speed and high precision
- It can also recognize laser codes and other high-density code systems

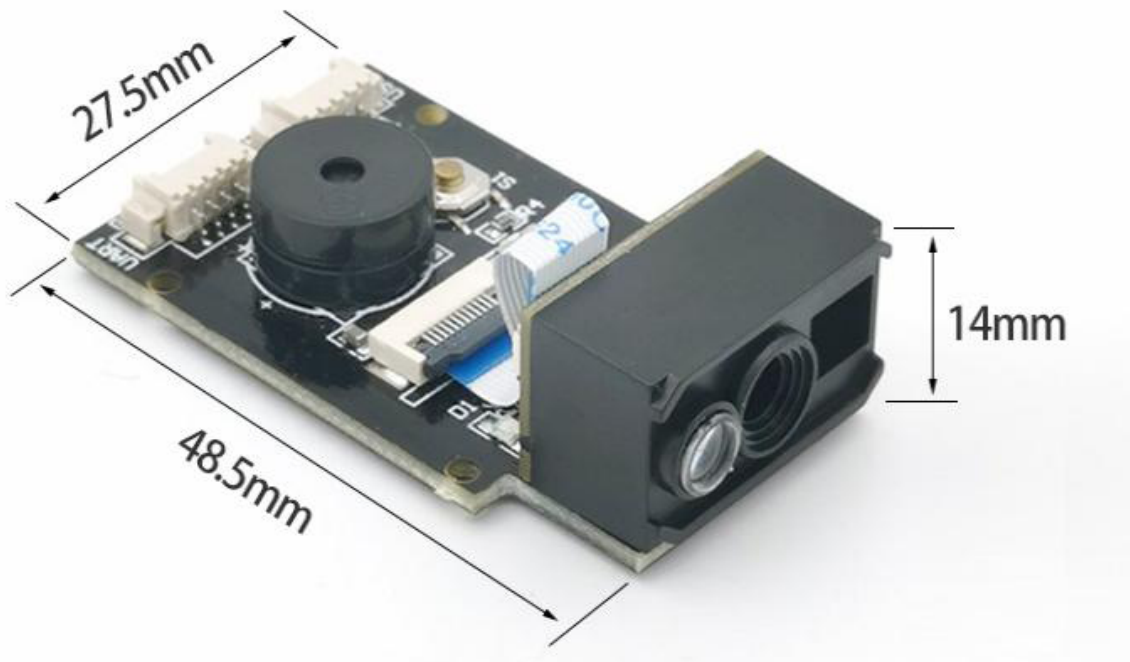
Applications

- Mobile payment
- Access control
- Self-service shopping

Specifications

- 15m/min scan speed
- Equipped with:
 - 0.3megapixel camera
 - Auxiliary lights
 - Red light focusing
 - White light illumination
- Offers TTL-232 and USB two communication interfaces
- 640*480 CMOS sensor
- ≥ 4 mil reading accuracy
- Support 1D code types:
 - 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, and Matrix 2 of 5
- Support 2D code types:
 - QR code, Micro QR, data matrix, PDF417, Mrico PDF417, and Aztec
- Reading depth of field:
 - EAN-13:
 - 50mm- 200mm (13mil)
 - Code39:
 - 40mm 90mm (5mil 10 bytes)
 - QR Code:
 - 25mm- 200mm (20mil 16 bytes)
 - Data Marix:
 - 50mm- 90mm (10mil 20 bytes)
 - PDF 417:
 - 30mm- 120mm (6. 67mil 7 bytes)
- Scanning angle:
 - Rotation angle 360°, elevation angle $\pm 55^\circ$, and deflection angle $\pm 5^\circ$
- 47° (horizontal) and 36° (vertical) Field of View (FOV)
- $\geq 25\%$ contrast
- TTL-232, USB (HID-KBW, virtual serial port) communication interface
- 48.5*27.5*14mm/1.91*1.08*0.55-inch size
- DC 5V working voltage
- 180mA working current
- 50mA USB and 10mA TTL standby current
- 0lux to 100000lux ambient light
- -20°C to 50°C working temperature range
- -40°C to 70°C storage temperature range
- 5% to 95% (non-condensing) working humidity

Dimension Diagram



Mouser Part Number

[View Part](#)

To learn more, visit

<https://www.mouser.com/new/dfrobot/dfrobot-gm77-barcode-qr-code-scanning-module/>