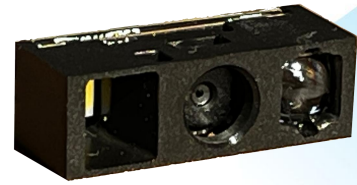


MZR813H

Two-dimensional image module

- Comprehensive reading ability
- Low-power design
- Powerful data editing capabilities
- Reliable and durable structure design



Product Features

Comprehensive reading ability

The image processing technology specially optimized for barcode application can recognize barcodes on various media such as screen and paper. It supports the recognition of all kinds of positive and negative color codes.

Low-power design

Support instant wake-up scanning in ultra-low power mode, and the lowest sleep power consumption is 6mA.

Powerful data editing capabilities

Supports AI analysis and transmission of various application identifiers defined in the GS1 specification, including support for medical device specification UDI code.

Reliable and durable structure design

High integration, compact size, small size hard solution, fast and efficient recognition of all kinds of bar codes.

MZR813H

Two-dimensional image module

Technical parameter

Electrical Character

Data interface	TTL, USB (HID-KBW、Virtual serial port)
Working voltage	DC 3.3V
Working current	210mA@3.3V(Scan the status, average current) <60mA@3.3V (Idle mode standby status) 6mA@3.3V(Sleep The mode is in standby state, and supports instant wake-up scanning code by Trig foot and UART command)

Optical Property

Sensor resolution	640×480 CMOS
Light source for illumination	White light LED
Aim at the light source	Red LED

Performance Characteristic

Reading angle	Revolve:360°, tilt:±60°, deflection:±60°
Ken	Horizontal 40.8°, vertical 32°
Min resolution	≥3mil
Min print contrast	≥10%

Decoding capability	1D: Code128、Code39、Code 39 full ascii、Trioptic Code39、Code32、Code93、UPC-A、UPC-E、UPC-E1、UPC-E+、UPC-A+、EAN8/JAN8、EAN13/JAN13、Bookland EAN/ISBN、Interleaved 2 of 5、Matrix 2 of 5、Industrial 2 of 5、Chinese 2 of 5、Codebar、Code 11、MSI、ISBT、GS1-128、GS1 Databar14、GS1 Databar Limited、GS1 Databar Expanded、Postal codes of various countries 2D: QR、Datamatrix、PDF417、Micro QR、Micro PDF417、Hanxin、GridMatrix、Aztec、Maxicode、GS1 QR、GS1 Datamatrix、GS1 Composite(CC-A/CC-B/CC-C)
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Physical Characteristics

Physical size	21.5mmx7mmx9.9mm(L * W * H)
Weight	<3g

Environmental Character

Temperature	-20°C~+65°C
Humidity	5%~95%无凝结
Storage temperature	-40°C~+70°C
Light resistance	0~100,000LUX

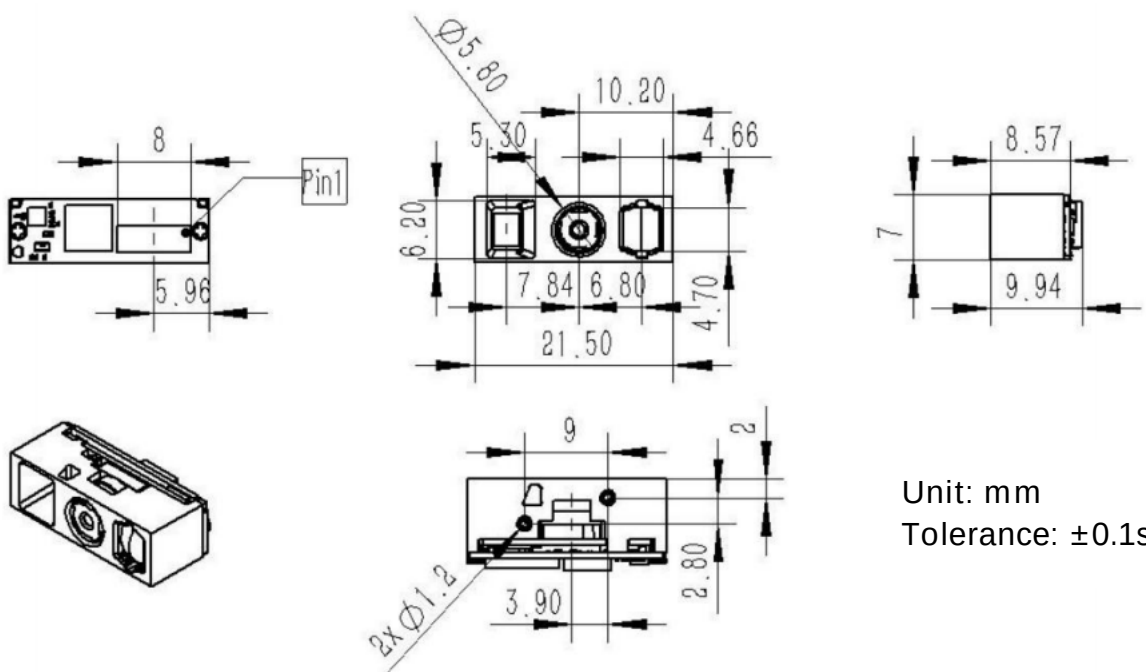
Read the Depth of Field

EAN-13(13mil)	50~332mm
Code39(5mil)	45~150mm
QR Code(15mil)	35~185mm
Data Marix(10mil)	45~150mm
Code128(8mil)	30~255mm

Interface Pins

PIN Number	PIN Name	PIN Direction	Instruction
Pin1	NC	—	—
Pin2	VCC	Electric Source	Power supply 3.2-3.6V
Pin3	GND	Land	—
Pin4	RX	Input	Serial port TTL level-received
Pin5	TX	Output	Serial port TTL level-sent
Pin6	D-	Input/Output	USB DM
Pin7	D+	Input/Output	USB DP
Pin8	MOTOR	Output	Motor vibration control output
Pin9	Beep	Output	Decoding success prompt tone
Pin10	LED	Output	Decoding success indicator light
Pin11	NC	—	—
Pin12	nTrig	Input	External scan code trigger (falling edge or level trigger)

Mechanical Dimensions



Unit: mm
Tolerance: $\pm 0.1s$