

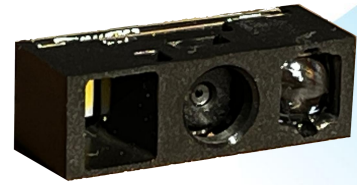
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科技改变未来

MZR813H

2D Imaging Module

- Comprehensive reading skills
- Low-power design
- Powerful data editing features
- Reliable and durable structural design



Product Features

Comprehensive reading skills

The image processing technology specially optimized for the application of bar code can recognize bar code on screen, paper and other kinds of media. Supports recognition of all positive and negative color codes.

Low-power design

Support instant wake-up scanning in ultra-low power mode with a minimum sleep power consumption of 6 mA.

Powerful data editing features

Supports AI parsing and transmission of various application identifiers defined in the GS1 standard, including compliance with the UDI code in medical device specifications.

Reliable and durable structural design

Highly integrated and compact, this compact hard decoding solution enables rapid and efficient recognition of various barcodes.

MZR813H

Two-dimensional imaging module

Technical Parameter

electrical char-acter	
Data interface	TTL, USB (HID-KBW, virtual serial port)
Working voltage	DC 3.3V
Working current	210mA@3.3V (scanned status, average current) <60mA@3.3V (Idle mode) 6 mA@3.3V (Sleep mode standby, supports Trig pin) Interim wake-up scanning and UART command instant wake-up scanning
optical characteris-tics	
Sensor resolution	640×480 CMOS
Light source	White light LED
Aiming light source	Red LED
performance charac-teristic	
Scan angle	Rotate 360°, tilt: ±60°, pan: ±60°
Ken	Horizontal 40.8, vertical 32
Minimum resolution	≥3mil
Minimum print contrast	≥10%

decoding capability

One-dimensional barcodes: Code 128, Code 39, Code 39 full ASCII, Trioptic Code 39, Code 32, Code 93, 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, Code bar, Code 11, MSI, ISBT, GS 1-128, GS1 Databar14, GS1 Databar Limited, GS1 Databar Expanded, postal codes of various countries

QR codes: QR, Datamatrix, PDF417, Micro QR, Micro PDF417, Hanxin, GridMatrix, Aztec, Maxicode, GS1 QR, GS1 Datamatrix, GS1 Composite (CC-A/CC-B/CC-C)

physical charac-teristics

Physical size	21.5 mm x 7 mm x 9.9 mm (length x width x height)
Weight	<3g

environmental character istics

Temperature	-20°C~+65°C
Humidity	5% to 95% non-coagulable
Storage temperature	-40°C~+70°C
Photoreactivity	0~100,000LUX

Read 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 Pin

引脚序号	引脚名称	引脚方向	说明
Pin1	NC	-	-
Pin2	VCC	电源	电源 3.2-3.6V
Pin3	GND	地	-
Pin4	RX	输入	串口 TTL 电平--接收
Pin5	TX	输出	串口 TTL 电平--发送
Pin6	D-	输入/输出	USB DM
Pin7	D+	输入/输出	USB DP
Pin8	MOTOR	输出	马达振动控制输出
Pin9	Beep	输出	解码成功提示音
Pin10	LED	输出	解码成功指示灯
Pin11	NC	-	-
Pin12	nTrig	输入	外部扫码触发(下降沿或者电平触发)

Mechanical Dimension

