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科技改变未来

CP500GS

Two-Dimensional Imaging Module

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



Product Features

Comprehensive reading skills

An image processing technology specifically optimized for barcode applications can recognize barcodes on various media such as screens and paper. Supports recognition of various positive and negative color codes.

Low-power design

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

Powerful data editing features

Supports AI parsing and transmission of various application identifiers defined in the GS1 specification, including compliance with the UDI codes specified for medical devices.

Reliable and durable structural design

Highly integrated with compact dimensions, this compact hardware-based solution enables rapid and efficient recognition of various barcode types.

CP500GS

Two-dimensional imaging module

Technical Parameter

Electrical character	
Data interface	USB HID KEYBOARD/USB VCP
Working voltage	DC 5V±5%
Working Current	100mA
Optical characteristics	
Sensor Resolution	640×480 CMOS
Lighting source	White light LED
Focus on the light source	Green LED
Performance characteristic	
Scan angle	Rotate360°, tilt:±40°, tiltangle:±40°
Field of View	62°horizontal, 48°vertical
Minimum resolution	≥5mil
Minimum print contrast	≥10%UPC/EAN 13 (13mil)
Decoding capability	1D: Code 128、EAN-13 、EAN-8、UPC-E、UPC-A、ISBN、ISSN、Code11、 ITF-25 (Interleaved 2 Of 5) 、Code39、Code93、Code32、Codabar Matrix 2 of 5、Industrial 25、IATA 25、MSI Plessey 2D: QR Code、Micro QR、Data Matrix 、PDF417

Physical characteristics

Physical Dimension	55.1 mm x 33.4 mm x 10.8 mm(length * width * height)
Weight	25g

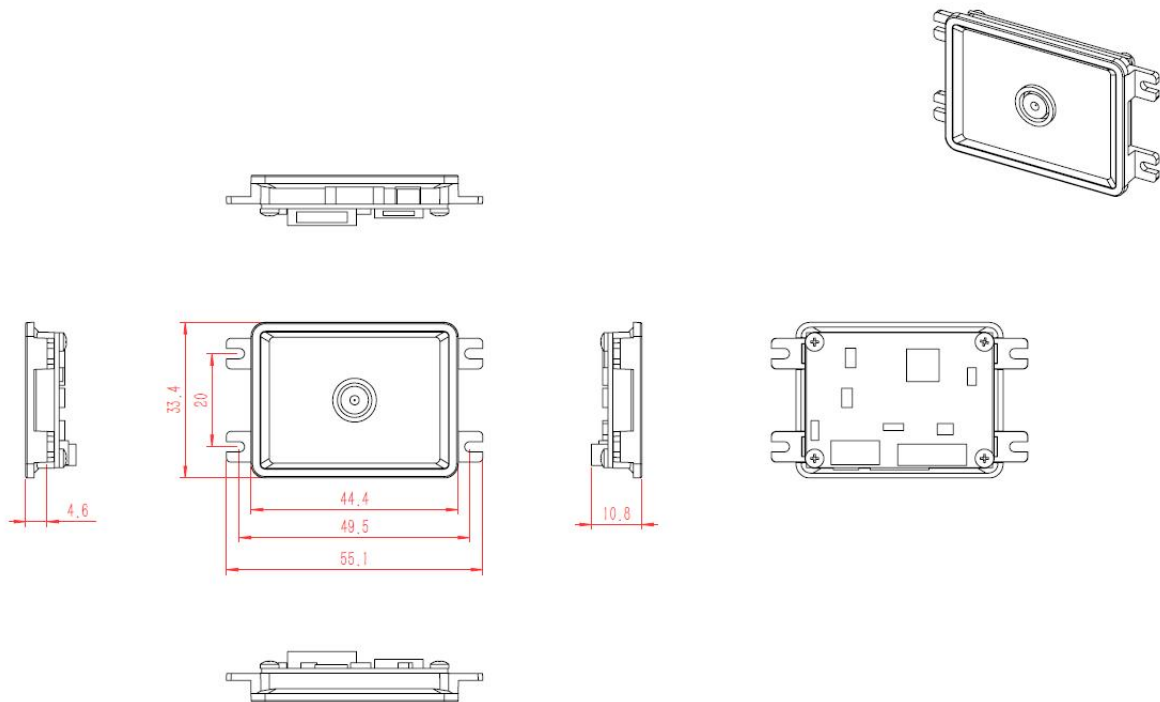
Environmental characteristics

Temperature	-20°C~+60°C
Humidity	No coagulation observed at 5% to 95%
Storage temperature	-40°C~+70°C

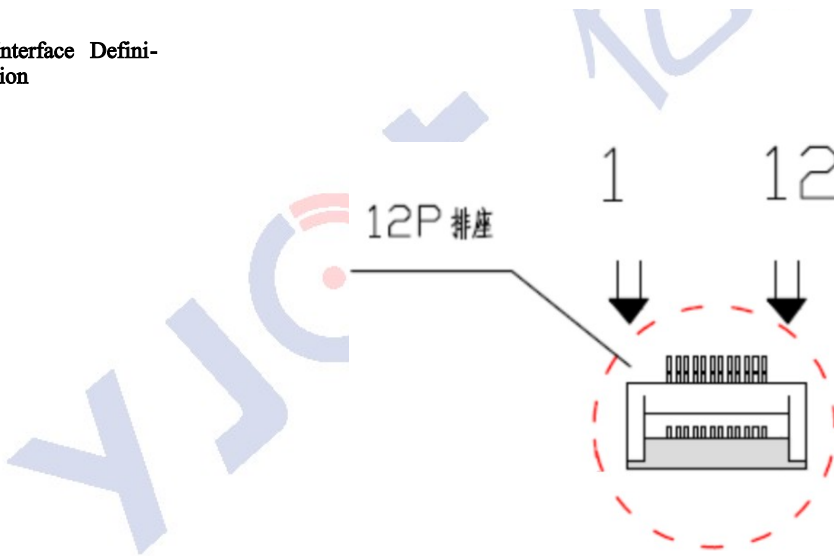
Read and interpret depth of field

Code128(8mil)	30~110mm
Code128(10mil)	30~110mm
QR Code(10mil)	15~75mm
QR Code(20mil)	15~135mm

Mechanical Dimension



Interface Definition



12PIN Interface Definition

Order number	Pin name	Explain
1	NC	NC
2	VCC	5V

3	GND	GND
4	RX	TTL Serial Port Reception
5	TX	TTL Serial Port Send
6	DN	USB_D-
7	DP	USB_D+
8	NC	NC
9	BEEP	Buzzer Control
10	DLED	LED pilot lamp
11	NC	NC
12	nTrig	Trigger signal pin

8PIN Interface Definition

PIN#	Definition	Description of the function	I/O type
1	VCC	5V	-
2	USB_D-	USB Data	I/O
3	USB_D+	USB Data	I/O
4	TXD	TTLs transmit by radio	O
5	RXD	TTL receive	I
6	GND	GND	-
7	DECODE_EN	Trigger barcode reading signal input	I
8	GND	GND	-