

ProMax BCR73 Bar code reader module is specifically designed to be used along with microcontroller and computers. It can output scanned codes as ASCII Text through Serial UART, Serial COM or as a HID Keyboard device to input data to existing desktop softwares. High performance and proven scanning hardware and algorithm, lets users work on their core project functionality rather than working on 1D & 2D code scanning features. Plug and play connection with microcontrollers and PCs.



Features

- Multiple output modes - Serial UART TTL, USB COM Port, USB HID Output
- **Serial UART** outputs scanned data as ASCII Text to a microcontroller
- **USB COM Port** outputs scanned data as ASCII Text over a USB COM Port (Data can be accessed through the COM Port in MATLAB, Python, etc)
- When plugged in as a USD HID Device, it emulates a keyboard and types the scanned code as characters on the computer. Can be used to enter data directly to softwares like - Excel, Word, Browser, Calculators, Billing & Accounting Softwares, etc
- High resolution camera can scan code on multiple devices such as labels, paper, mobile phones or computers
- The scanner supports wide viewing Angle. Upto Inclination 60°, Elevation 46°
- Ring Illumination & Inbuilt buzzer for status induction
- Macro support replaces a string in the bar code with another
- High-precision small code reading upto 1D: 3mil, 2D: 5mil
- The bar code and QR code formats that can be recognized are QRCode, DataMatrix, PDF417, maxicode, Aztec, hanxin, EAN, UPC, Code 39, Code 93, Code 128, UCC/EAN 128, Code 11, Codabar, Interleaved 2 of 5, Standard 25, MSI-Plessey, GS1 Databar, Industrial 25 and Matrix 2 of 5.



Applications

- Suitable for use in Vending Machines, Billing Counters, Thermal Label Printers, Industrial Applications, Access Control, etc
- Perfect for Panel Installtions and comes with mounting brackets
- Suited for Low Power Battery Powered Applicaitons
- Can be used in Events, Travel, and Movies, Advertising, Games related products
- Suitable for all indoor applications

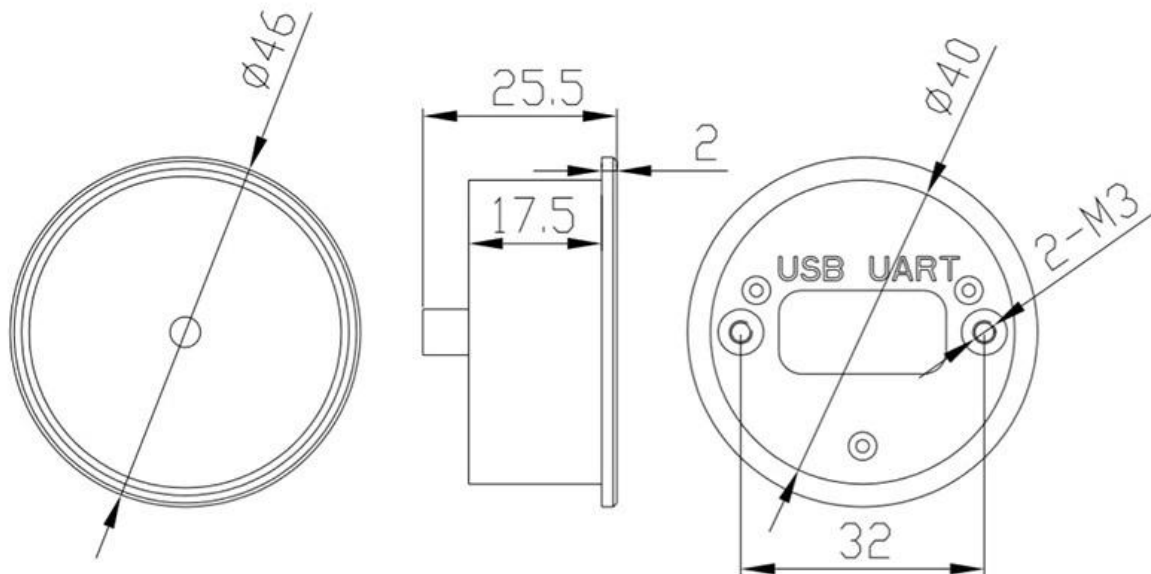
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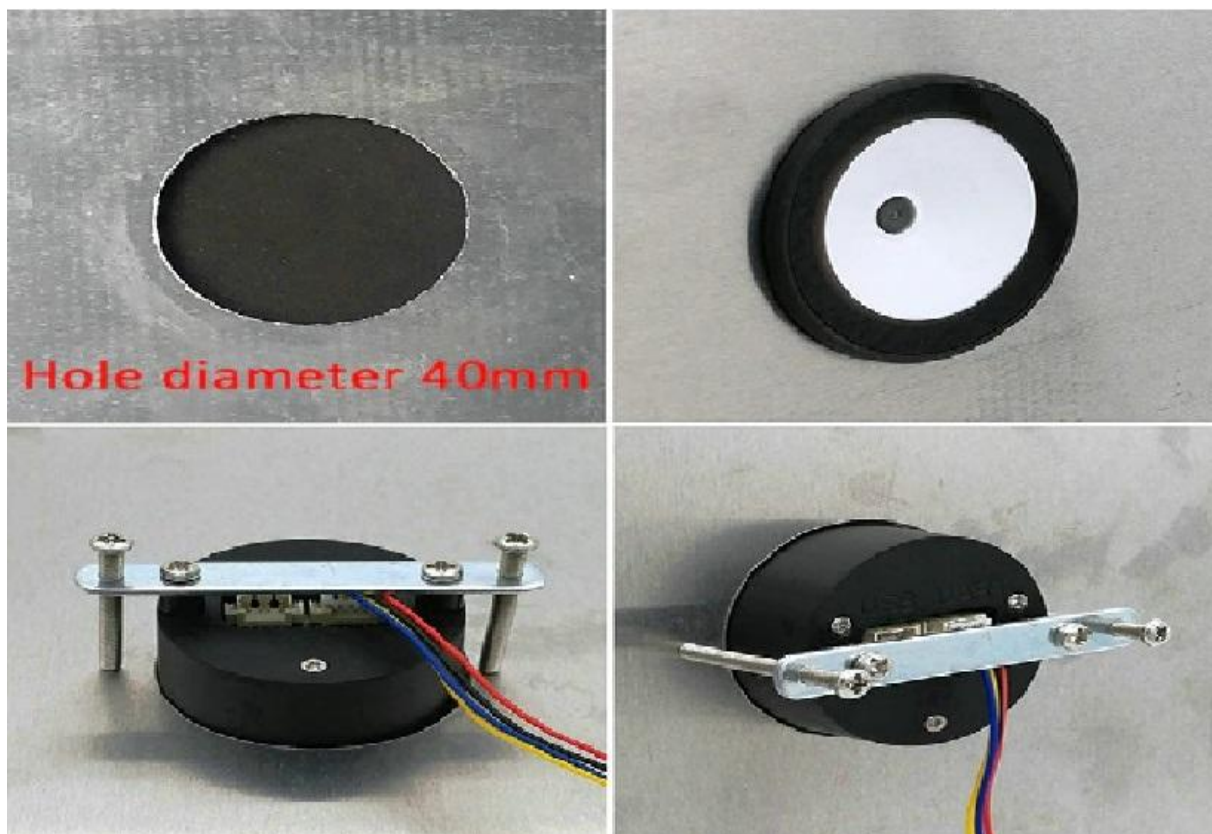
1. Technical Specifications

Terms	Typical Value
Supported Codes	1D: EAN,UPC,Code 39,Code 93,Code 128,UCC/EAN 128, CCoooddaeb1a1r,, Interleaved 2 of 5, Standard 25, MSI-Plessey GS1 Databar, Industrial 25, Matrix 2 of 5
	2D: QR Code, Data Matrix, PDF417,maxicode,Aztec,haxxin
Internal Camera Resolutions	640*480 CMOS
Interface	USB2.0 \ UART
Accuracy of reading	1D:6mil
	2D: 10mil
Operating Voltage	5V
Operating Current	≤100mA
Weight	15g
Size	Diameter 46mm
Light	White/Blue
Scan Angle	0-360°, Pitch:±45°or greater, Yaw:±45°or greater
Viewing Angle	Inclination 60°, Elevation 46°
Contrast	≥25%
Reading Distance	40 - 100mm
Operating Temperature	-20°C~+50°C
Storage Temperature	-40°C~+70°C
Temperature Humidity	5%~95% (Non-Condensing)
Light Levels	0~100000LUX

2.Scanner Physical Dimension and Mounting



BCR73 Dimenions



BCR75 Mounting Brackets

3. Pinout



UART interface definition:

Pin	Name	Definition	Description
1	5V	Power Input	Power Input
2	TX	Data Output	TTL3.3V logical level
3	RX	Data Input	TTL 3.3V logical level
4	GND	Power Input	Signal ground. Connected to power ground

USB interface definition:

Pin	Name	Definition	Description
1	5V	Power Input	Power Input DC5V
2	D+	Data Output	USB
3	D-	Data Input	USB
4	GND	Power Input	Signal ground. Connected to power ground

4. Interface Options

Interface note:

- a) Baud rate 9600bps; 8 bit data; 1 bit stop bit; No check.
- b) If the upper computer is MCU (3.3v), it is directly connected to TX and RX. If the upper computer is PC, the RS232 level conversion chip needs to be hooked up.

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