

Barcode Scan Engine

E8-N1

Feature

- **Core Technology**
Adopt the self-developed core 6th decoding technology, with excellent decoding capabilities for 1D/2D.
- **Outstanding Code Reading Capability**
Special adjustment for on-screen code, to meet the requirement of lowest lightness and amount of various filmed on-screen barcode.
- **To provide USB or TTL-232 or RS-232(need customization) interface,**
To meet different interface requests.
- **Split Design**
Image collector and decoding board are split and designed, small size, light weight, easily integrated to various devices

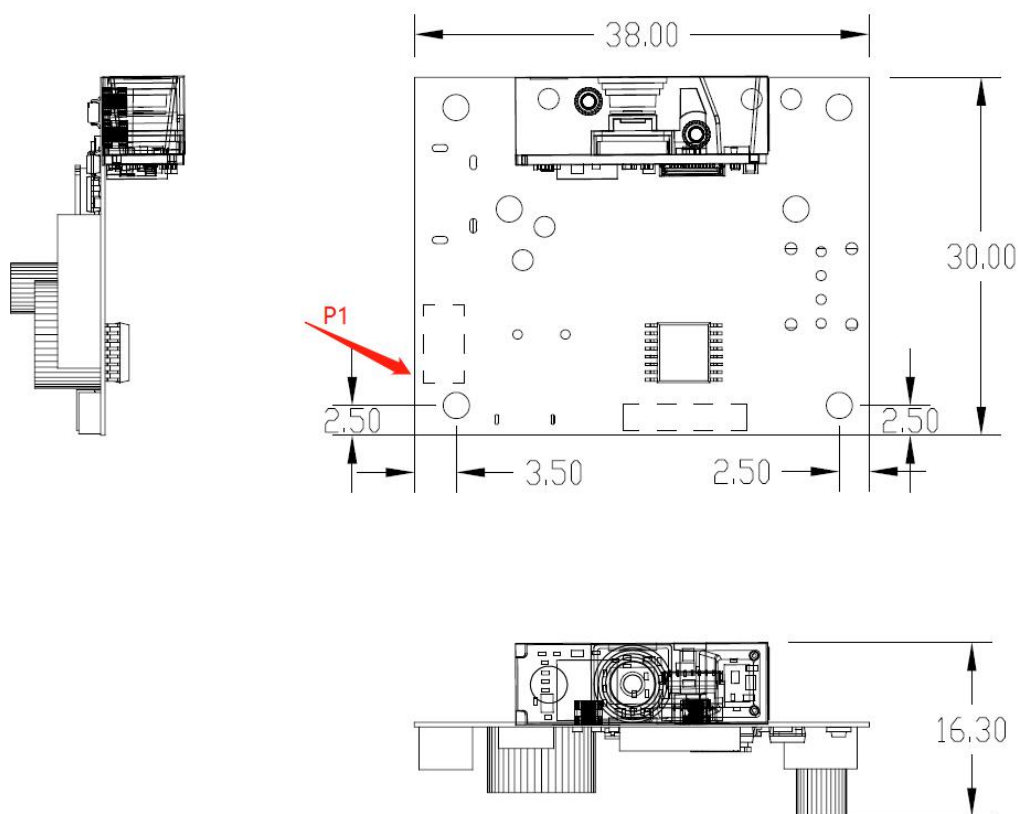
Scenario

It's widely used in PDA, Tablet, AFC, toll gate, access control, express delivery cabinet, ticket verification device, customer service center, and other self-service terminals(kiosks)

E8-N1/Barcode Scan Engine

Scan Function	Image Sensor	640*480 CMOS		
	Illumination	White LED		
	Aiming	Red 625nm		
	Symbologies	2D	PDF417, QR Code, Micro QR, Data Matrix	
		1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI-Plessey	
	Scan Precision*	≥3mil		
	Typical Depth of View	EAN13 (13mil)	65-350mm	
		PDF417 (6.7mil)	50-125mm	
		Code39 (5mil)	40-150mm	
		Data Matrix (10mil)	45-120mm	
		QR Code (15mil)	30-170mm	
Symbol Contrast*	≥25%			
Scan Sensitivity**	Skew±60°, Pitch±60°, Tilt 360°			
Field Angle	Horizontal 42°, Vertical 31.5°			
Mechanic/Electrical Parameter	Communication	USB, TTL-232/RS232(need customization)		
	Size(mm)	38.0(W)×30.0(D)×16.3(H) (Max Value)		
	Weight	9g		
	Operation Voltage	5.0 VDC±5%		
	Rated Consumption	452mW (Typical Value)		
	Current@5.0 VDC	Operation Current	138mA (Typical Value)	
		Idle Current	11.8mA	
Environmental	Operation Temperature	-20°C~+55°C		
	Storage Temperature	-40°C~+70°C		
	Operation Humidity	5%~95% (Non-condensing)		
	Illumination	0~100,000LUX		
Certification	FCC Part15 Class B, CE EMC Class B, RoHS2.0, IEC62471			
Accessory	Data Cable	USB Cable	1m USB Cable	
		RS232 Cable	2m RS232 Cable (Including 0.5m USB power supply cable)	

Size



PIN Definition

Number	Signal	I/O Type	Function Description
1	GND	Power	0V
2	RXD_232	I/O	TTL232 or RS232(optional) receive, (RS232 need customization)
3	TXD_232	I/O	TTL232 or RS232(optional) send, (RS232 need customization)
4	D+	I/O	USB D+
5	D-	I/O	USB D-
6	VCC	Power	Power Supply 5V



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