

LV2097

Barcode Reading Engine

Seamless Integration of Image Sensor and Decode Board Makes the Scan Engine Small ,easy Fit into Various Devices.



Product Advantages

Outstanding Screen Code Scanning Performance

Special decoding chip, independent decoding algorithm, integrated design of image acquisition and decoding, small size hard decoding technical solution, fast and efficient recognition of various barcodes.

Rich Interface

Interface: UART/USB, using 12Pin FPC connector, can be flexibly adapted to different applications.

Excellent Recognition Ability

Excellent reading ability. Specialized image processing technology for barcode applications can identify barcodes on various media such as screens,paper and DPM. Supports all kinds of positive and negative code recognition.

Real-time Image Capture Function

Supports real-time image capture function, which can be triggered by key or command, and complete the capture and report the decoding result at the same time.



Application scenario (as device accessories)

PDA device, tablet device, slim device, traditional self-service device, etc.

Product Specifications

performance parameter	
imaging sensor	640x480, global shutter
Reading accuracy	3 mil
Field of view Angle	Horizontal 40.8, vertical 32
Symbologies	2D QR code: QR, Datamatrix, PDF417, Micro QR, Micro PDF417, Hanxin, GridMatrix, Aztec, Maxicode, GS1QR, GS1 Datamatrix, GS1Composite(CC-A/CC-B/CC-C)
	1D One-dimensional code: Code128, Code39, Code39 full ascii, Trioptic Code39, Code 32, Code93, UPC-A, UPC-E, UPC-E1, UPC-E+, UPC-A+, EAN8/JAN8, EAN13/JAN13, BooklandEAN/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 code of various countries
Typical depth of field recognition	5mil CODE39:3.5-16cm 13mil EAN13:5-34cm 10mil Datamatrix:3.5-18cm 10mil QR:3-15cm 10mil PDF417 : 3-21cm
Reading Angle	Rotation 360°, tilt: ±60°, deviation: ±60°
Symbol contrast	≥20%
Fill light	white LED
Align the light	red LED
Capture images in real time	Supports button triggering
Mechanical/electrical parameters	
communication interface	UART 3.3V, USB HID, USB virtual serial port
Appearance size	21.5mmx7mmx9.9mm (length x width x depth)
weight	<3g
prompting mode	LED, buzzer signal output
working voltage	3.2-3.6V
power dissipation	working current: 280mA@3.3V (scanning status, average current) 40mA@3.3V (standby status, not open USB) 45mA@3.3V (standby status, open USB)
environmental parameter	
working temperature	-20-65°C
storage temperature	-40-70
Working humidity	5-95% (no condensation)
Environmental lighting	0- 100,000LUX

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