

XL-3020GSQ

2D Scan Embedded Module

Quick start for reading
Ultra-far depth of field
Image scanning



1D/2D



Mobile payment



Auto



ARM

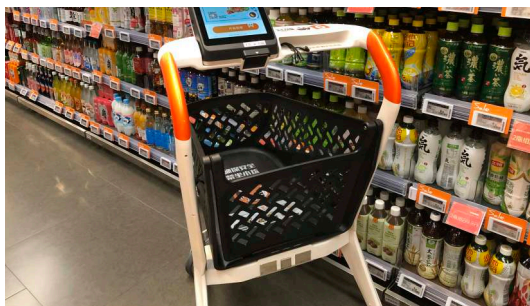


640x480 Pixels

Features

- Deliver reliable decoding performance for high-density 3mil barcodes
- Built on fully independent intellectual property technology, enabling remote online upgrade
- Ultra-fast capture of 1D & 2D barcodes from hard copies and smartphone displays
- Perfect deployment in healthcare, parking systems, subway access control
- Wide OS compatibility: Linux, Android, Windows XP/7/8/10, macOS
- Flexible secondary development interface adapts to various customized projects

Applications



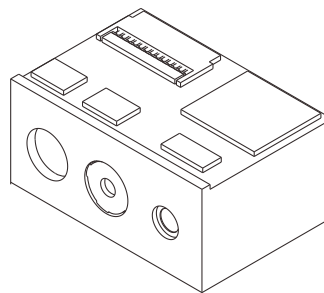
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XL-3020GSQ

Technical Parameters



Performance Parameter

Light Source	Red LED
CPU	ARM
Image Sensor	CMOS
Scan Mode	Induction & Manual & Command Trigger
Image Size	640x480 Pixels
Scanning Speed	60 FPS
Mobile Tolerance	1m/s
Mnimum Resolution	≥3mil
Scanning Angle	Deflection 360°, inclination ±65°, rotation ±60°
Depth of Field	60~360mm@(EAN 13mil PCS=90%)
Decoding Capability	1D: Codabar, Code11, Code39, Code32, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Code93, Code128, GS1-128, UPC-A, UPC-E, EAN 8, EAN 13, GS1 DataBar (RSS14), GS1 DataBar Limited, GS1 DataBar Expanded, etc 2D: PDF417, Micro PDF417, QR Code, Micro QR, Data Matrix, Aztec Code

Other Parameters

Size	LxWxH: 21.3x14.5x11.5 (mm)
Weight	3.3g
Input Voltage	DC 3.3V
Working Current	178mA (Scanner)
Quiescent Curren	52mA (Scanner)
Stand-by Current	< 1uA (Scanner)
Temperature (Operating)	-10°C ~ 50°C
Humidity	5% to 95% (Non-condensing)
Temperature (Storage)	-20°C ~ 60°C
Resistance To Ambient Light	0 ~ 5,000Lux (Fluorescence) 0 ~ 100,000Lux (Sunlight)

Interface Definition

Support interface: USB-HID, USB-VCP, TTL

Pin	Name	Type	Description
①	NC		
②	VCC	Power	DC 3.3V
③	GND	Ground	Ground
④	RXD	Input	Serial communication data input pin(TTL level)
⑤	TXD	Output	Serial communication data output pin(TTL level)
⑥	D-	IO	USB DM
⑦	D+	IO	USB DP
⑧	NC		
⑨	BEEP	Output	Sound output pins that require an external buzzer drive circuit
⑩	LED	Output	Decoder success indicator output pin, requires external LED driver circuit
⑪	RST_N	Reset	The low level of 10ms drives the device to rest
⑫	TRIGER	Input	Read code trigger pin, keep low level effective for 10ms, keep high level normally

The Depth Of Field Performance

Type	Minimum (mm)	Maximum (mm)
EAN13 3mil	60	85
EAN13 5mil	40	140
EAN13 8mil	40	240
EAN13 13mil	60	360
EAN13 20mil	70	500
EAN13 30mil	110	620

*XL-3020GSQ-28/07/26B-V1.0.0

