

NLS-EM2028 series

Embedded 2D Barcode Scan Engine



Designed for OEM applications, this high performance CMOS engine can easily be integrated into various solutions such as kiosks, ticketing machines, PDA's and many more.

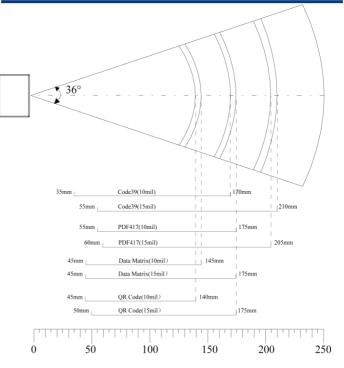
Product Features

Ease of integration

Compact and easy to integrate design, where the CMOS engine and decoder board can be placed seperately into your solution. The small form factor enables easy integration into various solutions.

Advance Technology

Decode Zones



V1.0.0

Specifications

Image Capture			
Image Sensor		CMOS	
Resolution		752*480	EM2028 Image Sensor
Interface		RS232, USB	
Barcode Scan		N0202, 00D	
Barooue ooun		PDF417, QR Code(Model 1/2), DataMatrix (ECC200,	22.9 ± 0.1
	2D	ECC000, 050, 080,100,140),Aztec, Maxicode, etc.	Front View
Symbols		Code128, EAN-13, EAN-8, Code39, UPC-A,	19.4 ± 0.1
	1D	UPC-E, Codabar, Interleaved 2 of 5, ISBN, Code 93,	
		UCC/EAN-128, GS1 Databar, etc	
Precision		≥ 5mil	Left View
Depth of Scan Field		35mm-210mm	
Print Contrast		≥ 30%	
	Roll	360° @ 0°Pitch and 0° Skew	
Sensitivity**	Yaw (skew)	\pm 60°@ 0°Roll and 0° Pitch	
-	Pitch	\pm 60°@ 0°Roll and 0° Skew	Bottom View
Illumination			
Light Source		LED (622 nm - 628 nm)	• EM2028
Light Intensity	,	330 LUX (130 mm)	35.0±0.1
Electrical and	Mechanical		
Power Consun	nption(Max)	2W	
Voltage		DC 5V (4.5-5.5V)	
Current	Working	400mA	
	Idle	115mA	O U U U U U U U U U U U U U U U U U U U
	Standby	18mA	Bottom view
	Deep Sleep	800uA	
Dimensions		35.0 *30.0*19.0mm	15
Weight		14g	
Environment			┍╺╼╴╷╚▃┉╷┍╴┍╴
Operating Tem		-5°C - +45°C	Left View
Storage Tempo	erature	-40°C - +60°C	
Humidity		5% - 95% (non-condensing)	
Ambient Illumi	nation	0 ~ 100,000 LUX	Contact Us
Certificates	ass B, CE EMC Clas	Do D	Newland China
Accessories			+86-400-608-0591
Accessories		The Evaluation Kit for EM2028, with trigger, beep functions	sales@nlscan.cn
Cradle EVK202	28	and USB, RS232 interfaces.	
Flex Cable		This cable connect to the RS232 port of EVK2028 with a	Newland Europe
		RJ45 port.With a standard female RS232 port to connect to	+31(0)-345-87-0033
	RS232 Cable	standard male RS232 port.	info@newland-id.com
		With a power port to accept power adapter supply.	Newland Taiwan
		This cable connect to the USB Slave port of EVK2028 with	+886-2-7731-5388
	USB Cable	a USB-B male port. With a standard USB Slave port to	info@newland-id.com.tw
		connect to standard USB Host port.	Neuleu - Neute Arrows
		The power adapter for EVK2028 by the RS232 Cable.	Newland North America +1-510-490-3888
Power Adapter	r	Output: DC5V, 2A; Input: AC100~240V, 50~60HZ.	info@newlandna.com

Dimension (Unit: mm) ge Sensor

, 19.0 ±0.1



Specifications are subject to change without notice.

Barcode Height = 12mm; Distance = 100mm; T=23°C; Illumination= 200 LUX

Code39: 4 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 1.0 ;

**Test Condition: