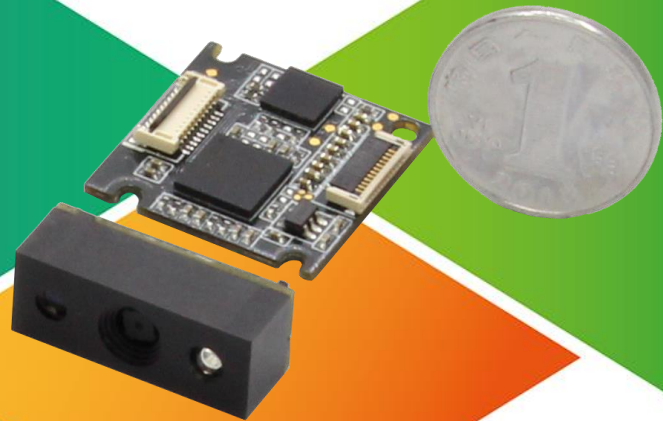


NLS-EM2096

OEM Scan Engine

- ◆ **UIMG® Technology**
- ◆ **Snappy On-Screen Barcode Capture**
- ◆ **Flexible Integration**
- ◆ **Low Power Consumption**
- ◆ **Multiple Interfaces**



Features

■ **UIMG® Technology**

Armed with Newland's sixth-generation of **UIMG®** technology, the scan engine can decode even poor quality barcodes with ease.

■ **Snappy On-Screen Barcode Capture**

The NLS-EM2096 excels at reading on-screen barcodes even when the screen is covered with protective film or set to its lowest brightness level.

■ **Multiple Interfaces**

The NLS-EM2096 supports USB and TTL-232 interfaces to meet diverse customer needs.

■ **Flexible Integration**

The decoder board and the imager can be separately mounted, which provides flexibility for integration and suits devices with small space inside.

■ **Low Power Consumption**

The advanced **NDC** technology incorporated in the scan engine promises low power consumption and prolonged service life.

Application Scenarios (as an accessory)

PDA, POS, desktop devices, portable devices, self-service kiosks.

NLS-EM2096

OEM Scan Engine

Performance	Image Sensor	640x480 CMOS		
	Illumination	Red LED 625±10 nm		
	Symbolologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code	
		1D	Code 128, UCC/EAN-128, AIM-128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBar™(RSS), (RSS-14, RSS-Limited, RSS-Expand)	
	Resolution	≥3mil		
	Typical Depth of Field	EAN-13	70mm-340mm (13mil)	
		Code 39	40mm-155mm (5mil)	
		PDF 417	45mm-105mm (6.67mil)	
		Data Matrix	40mm-105mm (10mil)	
		QR Code	45mm-145mm (15mil)	
	Symbol Contrast*	≥20%		
	Scan Angle**	Roll: 360°, Pitch: ±45°, Skew: ±50°		
	Field of View	Horizontal 44°, Vertical 33.2°		
Mechanical/ Electrical	Interface	TTL-232, USB (HID-KBW, COM Port Emulation, HID-POS)		
	Operating Voltage	3.3VDC ±5%		
	Rated Power Consumption	608mW (typical)		
	Current@3.3VDC	Operating	190mA (typical), 227mA (max.)	
		Standby	10mA	
		Sleep	<10uA	
	Dimensions	Imager	21.5(D)×9.8(W)×8.5(H)mm (max.)	
		Decoder Board	21.3(D)×21.3(W)×4.1(H)mm (max.)	
Weight	4g			
Environmental	Operating Temperature	-20°C to 50°C (-4°F to 122°F)		
	Storage Temperature	-40°C to 70°C (-40°F~158°F)		
	Humidity	5%~95% (non-condensing)		
	Ambient Light	0~10000lux (natural light)		
Accessories	NLS-EVK	Software development board equipped with a trigger button, beeper and RS-232 & USB interfaces.		
	Cable	USB	Used to connect the NLS-EVK to a host device.	
		RS-232	Used to connect the NLS-EVK to a host device.	
	Power Adapter	DC5V power adapter to power the NLS-EVK with RS-232 cable.		

*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

Version: V1.3

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