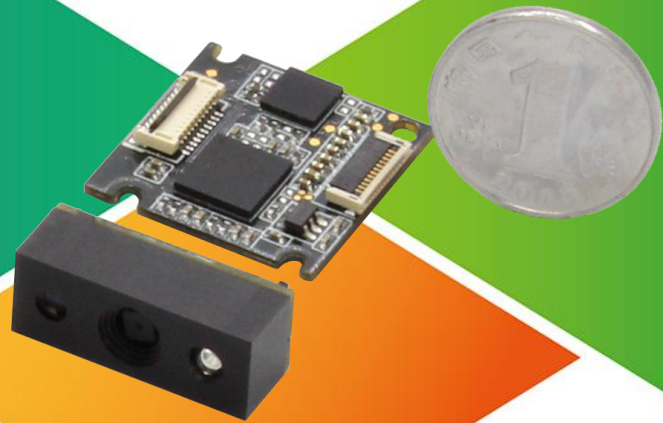


NLS-EM2096

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.

OEM Scan Engine

Performance	Image Sensor	640×480 CMOS		
	Light Source	Red LED 625±10 nm		
	Symbologies	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	≥5mil		
	Typical Depth of Field	EAN-13	60mm-350mm (13mil)	
		PDF 417	35mm-115mm (6.67mil)	
		Code 39	30mm-165mm (5mil)	
		Data Matrix	30mm-115mm (10mil)	
		QR Code	35mm-155mm (15mil)	
	Symbol Contrast	≥30% reflectance difference		
	Scan Angle**	Roll: 360°, Pitch: ±50°, Skew: ±60°		
	Field of View	Horizontal 44°, Vertical 33.2°		
Mechanical/ Electrical	Interface	TTL-232, USB (HID-KBW, COM Port Emulation, HID-POS)		
	Operating Voltage	3.0~3.6VDC		
	Current@3.3VDC	Operating	230mA	
		Standby	8mA	
		Sleep	<5uA	
	Dimensions	Imager	21(D)×9.2(W)×8(H)mm	
		Decoder Board	21(D)×21(W)×1(H)mm	
Weight	15g			
Environmental	Operating Temperature	-20°C~+50°C (-4°F~122°F)		
	Storage Temperature	-40°C~+80°C (-40°F~176°F)		
	Humidity	5%~95% (non-condensing)		
	Ambient Light	0~100000lux (natural light)		
Accessories	NLS-EVK3000	Software development board for the NLS-EM2096, equipped with a trigger button, beeper and RS-232 & USB interfaces.		
	Cable	USB	Used to connect the NLS-EVK3000 to a host device.	
		RS-232	Used to connect the NLS-EVK3000 to a host device.	
	Power Adapter	Used to provide power for the NLS-EVK3000. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz		

**Test conditions: Code 39; 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm; T=23°C; Illumination=300lux.

Specifications are subject to change without notice.

Version: V1.1

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