

NLS-EM20-80

OEM Scan Engine



Features

■ Snappy On-screen Barcode Capture

Featuring excellent near-field reading, wide-viewing angle and snappy reading, the CPU-powered NLS-EM20-80 is incredibly reader-friendly on smartphone & tablet displays.

■ Robust Design with High Vibration Resistance

The single PCB construction and vibration-proof connectors make the scan engine more resistant against vibration and help improve its reliability.

■ Multiple Interfaces

The NLS-EM20-80 supports USB, RS-232 and TTL-232 interfaces to meet diverse customer needs.

■ Slimmer, More Compact Construction

Compared with its predecessor, the new generation of NLS-EM20 is thinner, lighter and more compact, and thus easier to be integrated into any devices.

■ Outstanding Power Efficiency

The advanced  technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.

Application Scenarios (as an accessory)

Bus POS terminals, VTM, self-service cabinets used in e-commerce, express delivery services and smart homes, kiosks, automatic queuing machines, vending machines, etc.

NLS-EM20-80

SCANNING MADE SIMPLE

OEM Scan Engine

Performance	Image Sensor	640 * 480 CMOS
	Illumination	White LED
	Symbologies	2D PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode, Chinese Sensible Code, GM Code, Micro PDF417 Code, Code One
		1D EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, I2Of5, ITF-14, ITF-6, Matrix 25, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code11, MSI-Plessey, UCC/EAN Composite, GS1 Databar, Code 49, Code 16K
	Resolution*	≥5mil
	Typical Depth of Field*	EAN-13 25mm-110mm (13mil)
		QR Code 0mm-90mm (15mil)
		PDF417 35mm-45mm (6.7mil)
		Data Matrix 35mm-50mm (10mil)
	Min. Symbol Contrast*	30%
	Scan Angle**	Roll: 360°, Pitch: ±40°, Skew: ±45°
	Field of View	Horizontal 68°, Vertical 51°, Diagonal 84.8°
Mechanical/ Electrical	Interface	TTL-232, RS-232, USB
	Operating Voltage	12-pin FPC connector: 3.3-5VDC±5%
		4-pin box connector: 3.3-5VDC±5%
	Rated Power Consumption@5VDC	1129mW (typical)
	Current@5VDC	Operating 237mA (typical), 319mA (max.)
		Idle 69mA
	Rated Power Consumption@3.3VDC	1103mW (typical)
	Current@3.3VDC	Operating 335mA (typical), 479mA (max.)
		Idle 93mA
	Dimensions	61.5(W)×65.5(D)×31.9(H)mm (max.)
Environmental	Weight	33g
	Notification	Beeper, Green LED Indicator
	Operating Temperature	-40°C to 65°C (-40°F to 149°F)
	Storage Temperature	-40°C to 75°C (-40°F to 167°F)
	Humidity	5% to 95% (non-condensing)
Certifications	Ambient Light	0~100,000lux (natural light)
	FCC Part15 Class B, CE EMC Class B, RoHS	
	NLS-EVK	
	Software development board for the NLS-EM20-80, 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 printed barcodes made by Newland, WeChat Pay QR code on a 5.5" Android smartphone with brightness set to 100%.

**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.

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