



**OEM SCAN ENGINE** 

### **FEATURES**

#### O Unmatched Scanning Performance

Featuring excellent near-field reading, wide-viewing angle and snappy reading, the NLS-EM3080-W V2 also offers stunning performance on decoding poor-quality and damaged barcodes.

#### Multiple Interfaces

The NLS-EM3080-W V2 supports USB and TTL-232 interfaces to meet diverse customer needs.

#### O Compact & Lightweight Design

Seamless integration of imager and decoder board makes the scan engine extremely small and lightweight and easy to fit into miniature equipment.

#### Outstanding Power Efficiency

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













#### **Performance**

Typical Depth of Field

640\*480 CMOS Image Sensor Illumination White LED

Symbologies 2D PDF417, QR Code, Micro QR, Data Matrix, Aztec

> 10 Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14,

> > ISBN, ISSN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5,

Standard 2 of 5, AIM128, Plessey, MSI-Plessey

≥5mil Resolution

> 40mm-110mm (13mil) QR Code 30mm-70mm (15mil)

Min. Symbol Contrast

Scan Angle Roll: 360°, Pitch: ±45°, Skew: ±45°

FAN-13

Field of View Horizontal 69.5°, Vertical 54.8°, Diagonal 82.2°

#### Physical

TTL-232, USB Interface 3.3VDC±5% Operating Voltage 181.8mW Rated Power Consumption

Current@3.3VDC Operating 3 55.1mA RMS (typical), 105mA RMS (max.)

> Idle 9mA 1mA Sleep

 $15.5(W) \times 13.9(D) \times 9.7(H)$ mm (max.) Dimensions

Weight

#### **Environmental**

-20°C to 50°C (-4°F to 122°F) Operating Temperature -40°C to 70°C (-40°F to 158°F) Storage Temperature 5% to 95% (non-condensing) Humidity Ambient Light 0~100,000lux (natural light)

#### Certificates

FCC Part 15 Class B, CE EMC Class B, RoHS Certificates & Protection

#### **Accessories**

NLS-EVK Software development board for the NLS-EM3080-W V2, 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.

1 Depth of Field: T=23°C; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

2 Scan Angle: Scan Distance=(min. DOF + max. DOF)/2; 2D: QR Code; PCS=1; sample barcodes made by Newland.

3 Operating Current: Scan Distance=(min. DOF + max. DOF)/2; test in the normal mode.

Specifications are subject to change without notice.

Version: VI.1

The following table lists the pin functions of the 12-pin FPC connector.

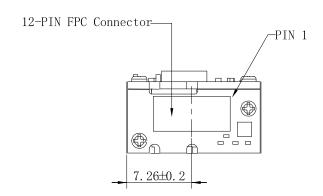
	-		
PIN#	Signal	1/0	Function
1	-	-	Not connected.
2	VDD	-	3.3V power supply.
3	GND	-	Power-supply ground.
4	RXD	1	TTL level 232 receive data.
5	TXD	0	TTL level 232 transmit data.
6	USB_D-	1/0	USB D- differential data signal
7	USB_D+	1/0	USB D+ differential data signal
8	-	-	Not connected.
9	BUZZ	0	Beeper output.
10	VIB	0	Good Read LED output: When using this signal, a driver
			circuit is needed to drive an external LED.
11	nRESET	1	Reset signal input: active low. Driving this pin low for 100us
			resets the engine.
12	nTRIG	I	Trigger signal input: Driving this pin low for 50ms causes the
			engine to start a scan and decode session.

Specifications are subject to change without notice.

Version: V1.1

Interface

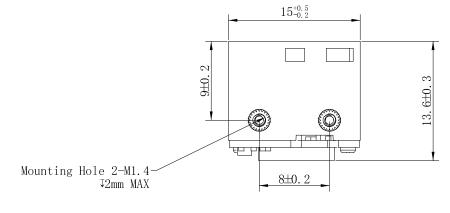
Pinouts

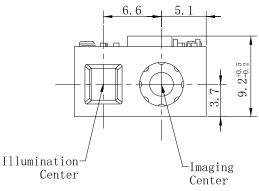


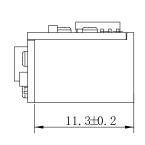
Mechanical Mounting

Dimensions

(unit: mm)







Dimensions: 15.5(W)×13.9(D)×9.7(H)mm (max)

Specifications are subject to change without notice.

Version: V1.1

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