



1D & 2D



Chip



Entry Level



CMOS



Wide Scan Angle



White Illumination



Power consumption



Compact Size



Dual Interface



EasySet



Warranty 2 Years



**EM3080-W V2**  
OEM Scan Engines

## Features

### Unmatched Scanning Performance

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

### Multiple Interfaces

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

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



## Suggested industries



Retail



Healthcare

9.7 mm

15.5 mm

13.9 mm

# EM3080-W V2 Technical specifications

## Data Capture

1D	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, GSI Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI-Plessey
2D	PDF4 I 7, QR Code, Micro QR, Data Matrix, Aztec
Image Sensor	CMOS 640*480
Illumination	White LED
Scan Modes	Manual Mode, Continuous Mode, Sense Mode, Command Trigger Mode
Scan Rate	30 frames per second
Depth of Field EAN 13 (13mil)	40-110mm
Depth of Field QR (15mil)	30-70mm
Field of View Horizontal	69.5°
Field of View Vertical	54.8°
Scan Angle Roll	360°
Scan Angle Pitch	±45°
Scan Angle Skew	±45°
Minimal Print Contrast	25%

## Performance

Decoder	ASIC (0610)
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## Physical

Current @ 3.3VDC Operating	55.1mA (typical), 105mA (max.)
Current @ 3.3VDC Standby	9,0 mA
Dimensions (mm)	15.5(W)×13.9(D)×9.7(H)mm (max.)
Input Voltage	3.3VDC±5%
Interfaces	TTL-232, USB
Material	PPA
Power Consumption	181.8mW (Typical)
Sleep Current	1 mA
Weight	2.2±0.2g

## Environmental

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

## Accessories

Optional	100mm flexible flat cable (FFC) – contacts opposite
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Feel free to contact us or a partner near you

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Specifications are subject to change without notice

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# EM3080-W V2 Technical specifications

Optional	NLS-EVK Software development board for the NLS-EM3080-W V2, equipped with a trigger button, beeper and RS-232 & USB interfaces.
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## Software

Configuration Tools	EasySet
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## Certifications

Hardware	FCC Part 15 Class B, CE EMC Class B, RoHS
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## Warranty

Standard	2 years
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