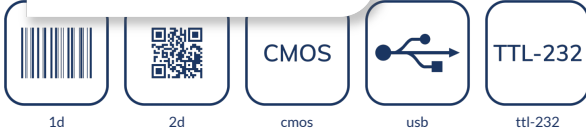


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**EM3085-M**  
oem scan engines

## Features

### Advanced technology.

Newland's sixth-generation UIMG technology makes the EM3085-M capable of reading most 1D & 2D barcodes with ease, even codes that are poorly printed.

### Multiple interfaces.

The EM3085-M engine supports USB and TTL-232 interfaces, meeting diverse customer needs.

### Compact and lightweight.

Seamless integration of a CMOS image sensor and decoder board makes the engine small, lightweight and easy for integration.

### All-round scanning capability.

The EM3085-M scan engine can read barcodes on virtually any medium, including: paper, plastic cards, mobile phones and LCD displays.

### Outstanding power efficiency.

The advanced NLDC technology incorporated in the EM3085-M helps to reduce its power consumption and prolong its service life.

## Application Scenarios



industrial



manufacturing



self service

<b>Performance</b>	Processor	0390 Chip+MCU
	Image Sensor	CMOS 640*480
	Illumination	White LED
	Aiming	Red LED (650 nm±10 nm)
	Depth of Field EAN13 (13mil)	60-230mm
	Depth of Field CODE 39 (5mil)	55-125mm
	Depth of Field QR (15mil)	40-120mm
	Minimal Print Contrast	25%
	Scan Angle Roll	360°
	Scan Angle Pitch	±45°
	Scan Angle Skew	±40°
	Field of View Horizontal	45.6°
	Field of View Vertical	34.2°
	Scan Modes	Batch Mode, Trigger Mode, Sense Mode, Continuous Mode
	Scan Rate	60 frames per second
<b>Data capture</b>	1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey, etc.
	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code
<b>Physical</b>	Dimensions (mm)	21.5(W)×15.3(D)×11.8(H)mm (max.)
	Weight	3.6±0.2g
	Material	PPA,ABS
	Interfaces	TTL,USB
	Input Voltage	3.3VDC±5%
	Current @ 3.3VDC Operating	145±15mA
	Current @ 3.3VDC Standby	<11mA
	Power Supply Input	DC5V, 1.5A
	Power Supply Output	AC100~240V, 50~60Hz
<b>Environmental</b>	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)
<b>Accessories</b>	Optional	EVK3030,RS232 Cable,Adapter,USB Cable
	Standard	75mm FFC
<b>Certifications</b>	Certifications	FCC Part15 Class B, CE EMC Class B