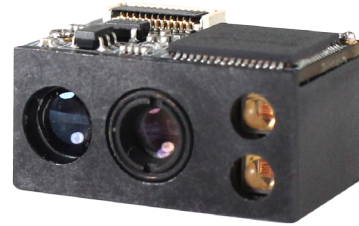


EM3095

OEM Scan Engine



Features

◆ Advanced technology.

The EM3095 series Newland chip based 2D CMOS barcode scan engine, armed with the Newland patented UIMG image recognition system, brings about a new era of 2D barcode scan engines. Accurate, snappy scanning performance for a fair price. Newland aims to make excellent barcode scanning technology more accessible by developing value for money solutions.

◆ 2D barcode decoder chip.

The engine armed with the state-of-the-art 2D barcode decoder chip invented by Newland demonstrates unprecedented reading performance.

◆ Two-in-one design.

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

◆ High performance & ultra-low power consumption.

The EM3095 engine can read most 1D and 2D barcodes with a power consumption only one fourth that of a traditional engine.

◆ All-round scanning capability.

The EM3095 can read barcodes on virtually any medium-paper, plastic cards, mobile phones and LCD displays.

Application Scenarios

The EM3095 2D scan module is one of our smallest scan engines. It provides an ideal solution for mobile phone based barcode applications, like coupons, e-tickets and boarding passes, and traditional applications.

EM3095

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Performance	Image Sensor	752×480 CMOS		
	Light Source	Red LED 625±10 nm		
	Symbologies	2D	PDF417, QR Code (Model 1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140)	
		1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, UCC/EAN-128, GS1 Databar, etc.	
	Reading Precision	≥5mil		
	Typical Depth of Field	UPC-A	55mm - 270mm(13mil)	
		Code 39	50mm - 340mm(20mil)	
		PDF 417	70mm - 165mm(6.67mil)	
		Data Matrix	55mm - 180mm(10mil)	
		QR Code	35mm - 275mm(20mil)	
	Symbol Contrast	≥30%		
Scan Angle**	Roll: 360°, Pitch: ±50°, Skew: ±50°			
Mechanical/ Electrical	Field of View	Horizontal 36°, Vertical 23°		
	Interface	TTL-232, USB (HID-KBW, USB COM Port Emulation, DATAPIPE, HID-POS)		
	Operating Voltage	3.0~3.6VDC		
	Current@3.3VDC	Operating	230mA	
		Sleep	40mA	
	Dimensions	21.17(W)×14.6(D)×11.52(H)mm		
	Weight	4.4g		
Environmental	Operating Temperature	-20°C~+60°C		
	Storage Temperature	-40°C~+80°C		
	Humidity	5%~95% (non-condensing)		
	Ambient Light	0~100000lux (natural light)		
Certification	FCC Part15 Class B, CE EMC Class B			
Accessories	EVK	Development/ evaluation (EVK) board for the EM3095, equipped with a trigger button, beeper and TTL232 &USB interfaces.		
	Cable	USB	Used to connect the EVK to a host device.	
		RS-232	Used to connect the EVK to a host device; equipped with a power connector.	
	Power Adapter	Used to provide power for the EVK board. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz.		

Specifications are subject to change without notice.

V.1.0.2

Newland EMEA
+31 (0) 345 87 00 33
info@newland-id.com

Newland D-A-CH
+49 (0) 294 298 76758
info@newland-id.de

Newland UK
+44 (0) 1442 212 020
sales@newland-id.co.uk

Newland Nordic & Baltic
+46 (0) 708 847 767
nordic@newland-id.com

Newland Ibérica
+34 (0) 93 303 74 66
info@newland-id.es

Newland France
+31 (0) 345 87 00 33
france@newland-id.com

Newland Middle East
+31 (0) 345 87 00 33
middleeast@newland-id.com

Newland South Africa
+27 (0) 11 553 8010
info@newland-id.co.za

Newland Italy
+39 (0) 342 056 2227
italy@newland-id.com

Newland Russia
+31 (0) 345 87 00 33
russia@newland-id.com