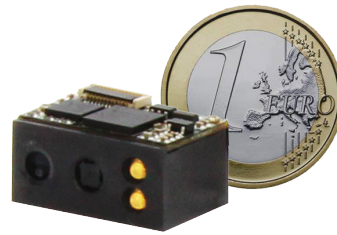


EM3296

OEM Scan Engine



Features

◆ Advanced technology.

Armed with Newland's fifth-generation of UIMG technology, the scan engine can decode even poor quality barcodes with ease.

◆ Miniature and ultralight form factor.

Ultra-compact, light and integrator-friendly, the EM3296 caters for miniaturization needs of OEM applications.

◆ Multi-interface.

The EM3296 supports USB and TTL-232 interfaces to meet diverse customer needs.

◆ Two-in-one design.

Seamless integration of image sensor and decoder board makes the scan engine small, lightweight and easy to fit into even the most space-constrained equipment.

◆ Outstanding power efficiency.

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

Application Scenarios

Self-service cabinets used in e-commerce, express delivery services and smart homes; ATMs; kiosks; queue machines; lottery machines; certificate makers.

EM3296

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Performance	Image Sensor	640×480 CMOS		
	Light Source	Red LED 625±10 nm		
	Symbologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code	
		1D	Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBar™(RSS), (RSS-14, RSS-Limited, RSS-Expand)	
	Resolution	≥5mil		
	Typical Depth of Field	EAN-13	45mm-370mm (13mil)	
		Code 39	35mm-170mm (5mil)	
		Data Matrix	30mm-120mm (10mil)	
		QR Code	30mm-150mm (15mil)	
		PDF 417	40mm-120mm (6.67mil)	
Symbol Contrast	≥30% reflectance difference			
Scan Angle**	Roll: 360°, Pitch: ±50°, Skew: ±60°			
Field of View	Horizontal 44°, Vertical 33.2°			
Mechanical/ Electrical	Interface	TTL-232, USB (HID-KBW, COM Port Emulation, HID-POS)		
	Operating Voltage	3.0~3.6VDC		
	Current@3.3VDC	Operating	175mA	
		Standby	8mA	
		Sleep	<5uA	
	Dimensions	21.2(W)×14(D)×11.1(H)mm		
Weight	4g			
Environmental	Operating Temperature	-20°C~+50°C (-4°F~122°F)		
	Storage Temperature	-40°C~+70°C (-40°F~158°F)		
	Humidity	5%~95% (non-condensing)		
	Ambient Light	0~100000lux (natural light)		
Accessories	NLS-EVK3000	Software development board for the EM3296, equipped with a trigger button, beeper and RS-232 & USB interfaces.		
	Cable	USB	Used to connect the EVK3000 to a host device.	
		RS-232	Used to connect the EVK3000 to a host device.	
Power Adaptor	Used to provide power for the EVK3000. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz			

**Test conditions: Code 39; 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm; T=23°C; Illumination=200lux.

Version: V1.1

Specifications are subject to change without notice.

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