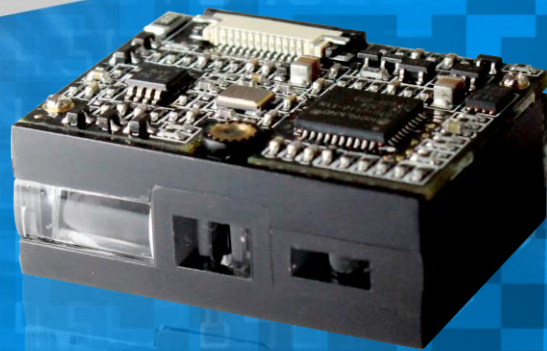


NLS-EM1365-LD

OEM Scan Engine



The NLS-EM1365-LD OEM scan engine, armed with linear imager, is suitable to be integrated into various OEM devices including kiosks, ticket validators and PDAs.

The NLS-EM1365-LD's core technology **UIMG[®]** is independently developed by Newland, comprising optical system, digitizer, decoder, image processor and embedded system. The device demonstrates an unprecedented decoding capability on all mainstream 1D symbologies.

The NLS-EM1365-LD supports EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey.

Features:

- **Two-In-One Design:** Seamless integration of imager and decoder board makes the scan engine small, lightweight and easy for integration.
- **Superior performance:** The NLS-EM1365-LD delivers fast and accurate reading of 1D barcodes.
- **Low power consumption:** The scan engine provides an optimal solution for battery-operated equipments and mobile devices.
- **Easy to use:** Simple parameter configuration.

NLS-EM1365-LD Specifications

Performance					
Interface	TTL-232, USB1.1				
Image Sensor	Linear imager				
Resolution	1500				
Scan Rate	300 scans per second				
Symbologies	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey.				
Reading Precision	≥ 4mil				
Light Source	LED (610nm ~ 640nm)				
Depth of Field*	Code 39 (5mil): 70mm~155mm EAN-13 (13mil): 55mm ~ 450mm				
Scan Angle**	<table border="0"> <tr> <td>Pitch</td> <td>±60° @ 0° Roll and 0° Skew</td> </tr> <tr> <td>Skew</td> <td>±60° @ 0° Roll and 0° Pitch</td> </tr> </table>	Pitch	±60° @ 0° Roll and 0° Skew	Skew	±60° @ 0° Roll and 0° Pitch
Pitch	±60° @ 0° Roll and 0° Skew				
Skew	±60° @ 0° Roll and 0° Pitch				
Symbol Contrast	≥ 30% reflectance difference				
Mechanical/Electrical					
Rated Power Consumption	71.1mW (typical)				
Operating Voltage	3.3VDC±5%				
Current @ 3.3VDC	<table border="0"> <tr> <td>Operating Current</td> <td>21.6mA (typical), 53.9mA (max.)</td> </tr> <tr> <td>Standby Current</td> <td>10.6mA</td> </tr> </table>	Operating Current	21.6mA (typical), 53.9mA (max.)	Standby Current	10.6mA
Operating Current	21.6mA (typical), 53.9mA (max.)				
Standby Current	10.6mA				
Dimensions	28.3(W)×22.0(D)×11.8(H)mm				
Weight	6.0g				
Environmental					
Operating Temperature	-20°C ~ +55°C				
Storage Temperature	-40°C ~ +70°C				
Humidity	5% ~ 95% (non-condensing)				
Ambient Light	0 ~ 100,000 LUX				
Certifications					
FCC Part15 Class B; CE EMC Class B					
Accessories					
NLS-EVK	Software development board, equipped with a trigger button, beeper and RS-232 & USB interfaces.				
Cable	<table border="0"> <tr> <td>RS-232 Cable</td> <td>Used to connect the NLS-EVK to a host device; equipped with a power connector.</td> </tr> <tr> <td>USB Cable</td> <td>Used to connect the NLS-EVK3000 to a host device.</td> </tr> </table>	RS-232 Cable	Used to connect the NLS-EVK to a host device; equipped with a power connector.	USB Cable	Used to connect the NLS-EVK3000 to a host device.
RS-232 Cable	Used to connect the NLS-EVK to a host device; equipped with a power connector.				
USB Cable	Used to connect the NLS-EVK3000 to a host device.				
Power Adapter	DC5V power adapter, used to provide power for the NLS-EVK.				
*Test conditions: T=23°C; Illumination=300lux; sample barcodes made by Newland.					
**Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux;					
1D: Code 128; 5 Bytes; Resolution=10mil; PCS=0.8.					

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