

NLS-EM20-80

OEM Scan Engine



Features

■ Snappy On-screen Barcode Capture

Featuring excellent near-field reading, wide-viewing angle and snappy reading, the CPU-powered NLS-EM20-80 is incredibly reader-friendly on smartphone & tablet displays.

■ Robust Design with High Vibration Resistance

The single PCB construction and vibration-proof connectors make the scan engine more resistant against vibration and help improve its reliability.

■ Multiple Interfaces

The NLS-EM20-80 supports USB, RS-232 and TTL-232 interfaces to meet diverse customer needs.

■ Slimmer, More Compact Construction

Compared with its predecessor, the new generation of NLS-EM20 is thinner, lighter and more compact, and thus easier to be integrated into any devices.

■ Outstanding Power Efficiency

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

Application Scenarios (as an accessory)

Bus POS terminals, VTM, self-service cabinets used in e-commerce, express delivery services and smart homes, kiosks, automatic queuing machines, vending machines, etc.

NLS-EM20-80

SCANNING MADE SIMPLE

OEM Scan Engine

| | | |
|-----------------------------------|---|--|
| Performance | Image Sensor | 640 * 480 CMOS |
| | Illumination | White LED |
| | Symbologies | 2D PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode, Chinese Sensible Code, GM Code, Micro PDF417 Code, Code One |
| | | 1D EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, I2Of5, ITF-14, ITF-6, Matrix 25, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code11, MSI-Plessey, UCC/EAN Composite, GS1 Databar, Code 49, Code 16K |
| | Resolution* | ≥5mil |
| | Typical Depth of Field* | EAN-13 25mm-110mm (13mil) |
| | | QR Code 0mm-90mm (15mil) |
| | | PDF417 35mm-45mm (6.7mil) |
| | | Data Matrix 35mm-50mm (10mil) |
| | Min. Symbol Contrast* | 30% |
| | Scan Angle** | Roll: 360°, Pitch: ±40°, Skew: ±45° |
| | Field of View | Horizontal 68°, Vertical 51°, Diagonal 84.8° |
| Mechanical/ Electrical | Interface | TTL-232, RS-232, USB |
| | Operating Voltage | 12-pin FPC connector: 3.3-5VDC±5% |
| | | 4-pin box connector: 3.3-5VDC±5% |
| | Rated Power Consumption@5VDC | 1129mW (typical) |
| | Current@5VDC | Operating 237mA (typical), 319mA (max.) |
| | | Idle 69mA |
| | Rated Power Consumption@3.3VDC | 1103mW (typical) |
| | Current@3.3VDC | Operating 335mA (typical), 479mA (max.) |
| | | Idle 93mA |
| | Dimensions | 61.5(W)×65.5(D)×31.9(H)mm (max.) |
| Environmental | Weight | 33g |
| | Notification | Beeper, Green LED Indicator |
| | Operating Temperature | -40°C to 65°C (-40°F to 149°F) |
| | Storage Temperature | -40°C to 75°C (-40°F to 167°F) |
| | Humidity | 5% to 95% (non-condensing) |
| Certifications | Ambient Light | 0~100,000lux (natural light) |
| | FCC Part15 Class B, CE EMC Class B, RoHS | |
| | NLS-EVK | |
| | Software development board for the NLS-EM20-80, equipped with a trigger button, beeper and RS-232 & USB interfaces. | |
| | Cable | USB Used to connect the NLS-EVK to a host device. |
| | | RS-232 Used to connect the NLS-EVK to a host device. |
| Power Adapter | | DC5V power adapter to power the NLS-EVK with RS-232 cable. |

*Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland, WeChat Pay QR code on a 5.5" Android smartphone with brightness set to 100%.

**Test conditions: Scan Distance=(min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.

Version:V1.4

Newland Headquarter

Add: NO.1 Ruijiang West Rd.,
Mawei, Fuzhou, Fujian 350015, China
Tel: +86 591 8397 9500
Email: info@nlscan.com
Web: www.newlandaidc.com

Newland APAC

Taiwan Tel: +886 2 7731 5388
Taiwan Email: info@newland-id.com.tw
Web: www.newland-id.com.tw
Japan Tel: +886 2 7731 5388 ext. 71
Korea Tel: +82 10 8990 4838
India Tel: +91 120 7964266
Japan/Korea/India Email: info@nlscan.com
Web: www.newlandaidc.com

Newland NALA

North America Tel: +1 510 490 3888
North America Email: info@nlscan.com
Latin America Tel: +1 239 598 0068
Latin America Email: info@newlandla.com Web: www.newland-id.com
Web: www.newlandamerica.com

Newland EMEA

Tel: +31 (0) 345 87 00 33
Email: sales@newland-id.com
Tech Support: tech-support@newland-id.com

