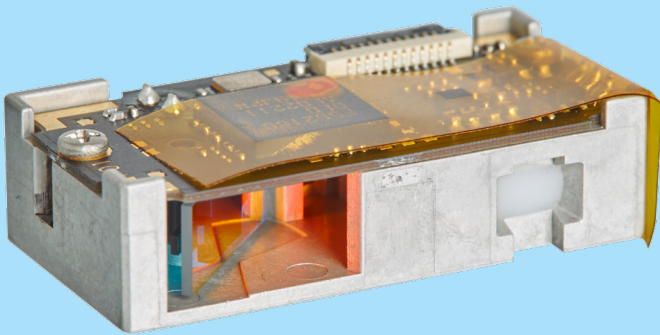


OEM

MDL-1500

Laser Barcode Scan Engine



Highlights

- Features a 650 nm visible laser diode that scans bi-directionally at 100 scans/second
- Complete barcode scan engine module with integrated decoder
- Perfect for integration into small, space-constrained mobile, medical or retail barcode scanning devices
- Small size makes it easy to mount
- Programmable software with a wide variety of options
- Low power consumption to fit your design needs
- Communication: Serial CMOS - 12 pin FFC connector, USB-HID, USB-COM
- Engineering kit available—enables faster time to market
- Two year warranty

MDL-1500

Product Specifications

COMMUNICATION

SERIAL CMOS: 12 pin FFC connector, USB-HID, USB-COM

POWER

VOLTAGE REQUIREMENT: 3 ~3.6V

CURRENT CONSUMPTION: Maximum 125mA

BARCODE SCANNER OPTICS

LIGHT SOURCE: 650 nm visible laser diode

SCAN METHOD: Bi-directional scanning

SCAN RATE: 100 scans/sec

READING PITCH ANGLE: -45 to 0°, 0 to +45°

READING SKEW ANGLE: -65 to -8°, +8 to +65°

READING TILT ANGLE: -25 to 0°, 0 to +25°

CURVATURE: 12-digit UPC: R>20 mm

MINIMUM RESOLUTION AT PCS 0.2: 3 mil (0.076 mm)

MINIMUM PCS VALUE: 0.9

DEPTH OF FIELD AT:

PCS 0.9 Code 39:

5 mil (0.127 mm) 2.2 - 5.3 in (55 - 135 mm)

5.9 mil (0.15 mm) 2 - 6.3 in (50 - 160 mm)

10 mil (0.254mm) 1.8 - 11.2 in (45 - 285 mm)

20 mil (0.508mm) 1.8 - 23.6 in (45 - 600 mm)

40 mil (1.018mm) 2 - 39.3 in (50 - 1000 mm)

PCS 0.9 Code 128:

7.1 mil (0.18 mm) 2 - 8.2 in (50 - 210 mm)

PCS 0.9 UPC/EAN:

13 mil (0.33 mm) 1.6 - 14.5 in (40 - 370 mm)

SUPPORTED SYMBOLOGIES

BARCODE (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5,

MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

POSTAL CODE: Chinese Post, Korean Postal Authority code

DURABILITY

TEMPERATURE:

Operation: -4 to 149 °F (-20 to 65 °C)

Storage: -22 to 158 °F (-30 to 70 °C)

HUMIDITY:

Operation: 5 - 90% (non-condensing)

Storage: 5 - 90% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Fluorescent: 4,000 lx max

Direct sun: 80,000 lx max

Incandescent: 4,000 lx max

DROP TEST: packed in dummy case 6 ft (1.8 m) drop onto concrete surface

MBTF: 30,000 hours except laser diode (10,000 hours) and except mirror scan unit (10,000 hours)

PHYSICAL

DIMENSIONS (WXHXD): 1.10 x 0.31 x 0.55 in (28 x 8.0 x 14 mm)

WEIGHT BODY: Ca. 0.13 oz (3.9 g)

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: RoHS, JIS C6802 Class 2, IEC60825-1 Class 2, FDA CDRH Class II

SOLD SEPARATELY

MEK1000 SDK: Development board, Getting started disc, RS232 cable

CONNECTION CABLE

© Copyright Opticon. All rights reserved. This information is subject to change without prior notice. For availability, contact your local representative. MDL-1500_102121

