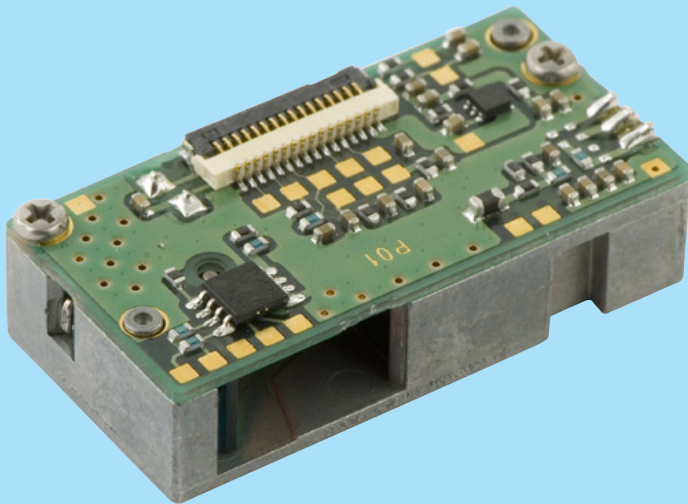


OEM

# MSL-1000

## Laser Barcode Scan Engine



### Highlights

- Undecoded laser barcode scan engine
- Features a 650 nm visible laser diode that scans bi-directionally
- Extremely fast scan rate of 100 scans/second
- Small size makes it easy to mount and integrate into space constrained areas
- Output is digital barcode pattern (TTL) via 12 pin FFC connector
- Programmable software with a wide variety of options
- Low profile, rectangular scan engine—dimensions of 1.10" x 0.31" x 0.55", weighs 0.14 ounces
- Engineering kit available—enables faster time to market
- Two year warranty

# MSL-1000

## Product Specifications

### COMMUNICATION

**SERIAL CMOS:** 12 pin FFC connector

### POWER

**VOLTAGE REQUIREMENT:** 3.3V ± 10%

**CURRENT CONSUMPTION:** Maximum 75mA

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 650 nm visible laser diode

**SCAN METHOD:** Bi-directional

**SCANNING SCAN RATE:** 100 scans/sec

**READING PITCH ANGLE:** -35 to 0°, 0 to +35°

**READING SKEW ANGLE:** -50 to -8°, +8 to +50°

**READING TILT ANGLE:** -20 to 0°, 0 to +20°

**CURVATURE:** R>15 mm (EAN8), R>20 mm (EAN13)

**MINIMUM RESOLUTION AT PCS 0.9:** 5 mil (0.127 mm)

**MINIMUM PCS VALUE:** 0.45

**DEPTH OF FIELD AT PCS 0.9 CODE 39:**

39 mil (1.0 mm) 2.76 - 25.59 in (70 - 650 mm)

20 mil (0.5 mm) 1.97 - 16.54 in (50 - 420 mm)

10 mil (0.25 mm) 1.97 - 10.24 in (50 - 260 mm)

6 mil (0.15 mm) 1.97 - 5.91 in (50 - 150 mm)

5 mil (0.127 mm) 2.36 - 4.72 in (60- 120 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

**BARCODE (POSTAL CODES):** 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 7.8 x 14 mm)

**WEIGHT BODY:** Ca. 0.14 oz (3.9 g)

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** RoHS, JIS-C-6802 Class 2, IEC 60825-1+A2

### SOLD SEPARATELY

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

#### CONNECTION CABLE, POWER SUPPLY:

100-240V/0.5A, 50/60 Hz, 5V/2A

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