

MDC-200

CCD Barcode Scan Engine

USB (HID and COM)

RS232



+ Features and Benefits

- Smaller form factor than the MDC-100: 0.30" (H) vs. 0.45"
- CCD linear sensor (1,500 pixels) barcode scan engine with integrated decoder
- Superior scanning performance at 300 scans/second
- Able to quickly scan 1D barcodes off cell phone displays
- All solid-state design with no moving parts equates to better MTBF
- No CDRH requirements and no warning labels needed
- Small form factor at just 0.90" x 0.30" x 0.59" (WxHxD) and weight of only 0.09 ounces
- Perfect for integration into small, space-constrained mobile, medical or retail barcode scanning devices
- Low power consumption operating at 3.3V to fit your design needs
- Supports USB (HID and COM) and RS232 interfaces
- Engineering kit available – enables faster time to market
- Two year warranty

Communication

- **Serial CMOS:** 12 pin FFC connector

Power

- **Voltage Requirement:** 3.3V
- **Current Consumption:** Max. 120mA

Barcode Scanner Optics

- **Light Source:** 1 red LED
- **Scan Method:** CCD linear sensor
- **Scan Rate:** 300 scans/sec
- **Reading Pitch Angle:** -50 to 0°, 0 to +50°
- **Reading Skew Angle:** -65 to 0°, 0 to +65°
- **Reading Tilt Angle:** -25 to 0°, 0 to +25°
- **Curvature:** R>15 mm (EAN8)
- **Minimum Resolution at PCS 0.9:** 0.1 mm (Code 39)
- **Depth of Field:**
 - Code 39: 4 mil (0.1 mm) 2.95 - 5.51 in (75 - 140 mm)
 - Code 39: 5 mil (0.127 mm) 2.36 - 7.01 in (60 - 178 mm)
 - Code 39: 10 mil (0.254 mm) 2.05 - 11.57 in (52 - 294 mm)
 - Code 39: 20 mil (0.508 mm) 2.20 - 18.98 in (56 - 482 mm)
 - Code 39: 39 mil (1.0 mm) 2.44 - 28.19 in (62 - 716 mm)
 - EAN 13: 13 mil (0.33 mm) 1.69 - 12.80 in (43 - 325 mm)
 - Code 128: 8 mil (0.20 mm) 2.56 - 5.12 in (55 - 180 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) (exl.stacked), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Postal Code:** Chinese Post, Korean Postal Authority Code

Durability

- **Temperature:**
 - Operation: -20 to 60 °C / -4 to 140 °F
 - Storage: -40 to 70 °C / -40 to 158 °F
- **Humidity:**
 - Operation: 5 - 90% (noncondensing)
 - Storage: 5 - 90% (non-condensing)
- **Ambient Light Immunity:**
 - Fluorescent: 4000 lx max
 - Sunlight: 100,000 lx max
 - Incandescent: 4000 lx
- **Drop Test:** packed in dummy case 6 ft (1.8 m) drop onto concrete surface

Physical

- **Dimensions (WxHxD):** 0.90 x 0.30 x 0.59 in (22.8 x 7.5 x 15 mm)
- **Weight:** Ca. 0.09 oz (2.6 g)

Regulatory and Safety

- RoHS, IEC62471

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- **The Netherlands:** Hoofddorp
- **France:** Issy Les Moulineaux
- **Germany:** Dietzenbach
- **Italy:** Castel Maggiore (BO)
- **Sweden:** Järfälla
- **United Kingdom:** Luton, Bedfordshire

- **U.S.A.:** Renton, WA
- **Brazil:** São Paulo
- **Japan:** Warabi City
- **Taiwan:** Taipei
- **P.R.China:** Shanghai

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