

MDC-200

CCD Barcode Scan Engine



Highlights

- 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

MDC-200

Product Specifications

COMMUNICATION

SERIAL CMOS: 12 pin FFC connector (both RS-232C and USB)

POWER

VOLTAGE REQUIREMENT: 3.3V

CURRENT CONSUMPTION: Maximum 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: 0.3 mm (EAN-13)

DEPTH OF FIELD:

At Code 39

5 mil (0.127 mm) 2.76 - 7.09 in (70 - 180 mm)

10 mil (0.25 mm) 2.17 - 11.81 in (55 - 300 mm)

20 mil (0.5 mm) 2.36 - 18.11 in (60 - 460 mm)

39 mil (1.0 mm) 2.56 - 31.50 in (65 - 800 mm)

At EAN-13:

13 mil (0.33 mm) 1.77 - 12.60 in (45 - 320 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-ISSM-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 - 140 °F (-20 - 60 °C)

Storage: -40 - 158 °F (-40 - 70 °C)

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 (W X H X D): 0.90 x 0.30 x 0.59 in (22.8 x 7.5 x 15 mm)

WEIGHT: Ca. 2.6 g / 0.09 oz

REGULATORY AND SAFETY

RoHS, IEC62471

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