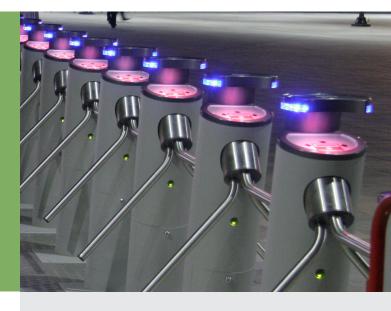
E OPTICON

Engines

MDC-100

CCD scanner

The MDC-100 is a strong performing CCD scanner in Opticons range of scan engines. It scans with an incredible speed of 300 scans per second and easily off numerous surfaces like a cell phone.







Highlights

- 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 2.8 x 11.5 x 15 mm (WxHxD) and weight of only 3.5 grams
- 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-100 Product Specifications

Communication

Serial CMOS: 12 pin FFC connector (both RS232C and USB)

Power

Voltage requirement: 3.3V Current consumption: Max. 120 mA

Barcode scanner optics

Light source: 1 red LED Scan method: CCD linear sensor Scan rate: 300 scans / second Reading pitch angle: \pm 50° Reading skew angle: \pm 65° Reading tilt angle: \pm 25° Curvature: R>15 mm (EAN8) Min. resolution at pcs 0.9: 0.3 mm (EAN-13) Depth of field at code 39: 70 - 180 mm (0.127 mm) / 2.76 - 7.09 in (5 mil) 55 - 300 mm (0.25 mm) / 2.17 - 11.81 in (10 mil) 60 - 460 mm (0.5 mm) / 2.36 - 18.11 in (20 mil) 65 - 800 mm (1.0 mm) / 2.56 - 31.50 in (39 mil) Depth of field at EAN-13: 45 - 320 mm (0.33 mm) / 1.77 - 12.60 in (13 mil)

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-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

Postal code: Chinese Post, Korean Postal Authority code

Durability

Temperature in operation: -20 to 65 °C / -4 to 149 °F Temperature in storage: -40 to 70 °C / -40 to 158 °F Humidity in operation: 5 - 90% (non-condensing) Humidity in storage: 5 - 90% (non-condensing) Ambient light immunity: Fluorescent 4,000 lx max, Sunlight 100,000 lx max, Incandescent 4,000 lx max Drop test: Packed in dummy case 1.8 m / 6 ft drop onto concrete surface

Physical

Dimensions (WxHxD): 22.8 x 11.5 x 15 mm / 0.90 x 0.45 x 0.59 in Weight: Ca. 3.5 g / 0.12 oz

Regulatory & Safety

RoHS, IEC62471

Items

Sold seperately: MEK-3100 development board (With power supply, RS232 cable, USB cable, PCBs)



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