



MT80 2D Mini Scan Engine

MT80 scanner engine is designed to achieve flexible and affordable OEM 2D barcode scanning solution. MT80 consists of a mini imager and a decoder that can be customized and fully integrated into the main board of host system based on customer's requirements. With flexible integration MT80 is ideal for any 2D barcode scanning application where space is limited and cost is a key concern.

Flexible 2D Scanning Solution

- The smallest and lightest 2D scan engine
- Outstanding 1D and 2D scanning performance
- Integrated into the most space-constrained product
- Support real-time dynamic configurations

Flexible Decoder Board Design



Easy and Flexible Operations

- Small Size : W14 x L10 x H7 mm
- Interfaces : USB HID, USB VCP and UART



| Optic & Performance | |
|---------------------------|--|
| Light Source | 3000K CCT white LED, 625nm red LED dot aimer |
| Sensor | Array Image Sensor |
| Scan Rate | 30 Frames/Sec |
| Resolution | 5Mil/ 0.125mm |
| Scan Angle | Horizontal 45°, Vertical 33° |
| Pitch / Skew / Roll Angle | ±60° / ±30° / 360° |
| Print Contrast Ratio | 30% |
| Width of Field | 75 mm (13Mil Code39) |
| Typical D.O.F (@800 lux) | UPC/EAN 13 Mil : 35 ~ 172 mm QR Code 15 Mil : 25 ~ 129 mm |
| Physical Characteristics | |
| Dimension | MT80: W14 x L10 x H7 mm, MD200 decoder board: W25 x L25 x H2 mm |
| Weight | MT80: 1g MD200 decoder board: 2.7g |
| Color | Black |
| Material | ABS |
| Connector | MT80: 25pin ZIF, MD200: 20pin board-to-board |
| Cable | MT80 to MD200: 25pin flex cable (pitch=0.3mm) |
| Electrical | |
| Operation Voltage | 3.3±0.15VDC |
| Working Current | < 300mA |
| Standby Current | < 200mA |
| Connectivity | |
| Interface/ Profile | UART, USB HID, USB VCP |
| User Environment | |
| Operating Temperature | 0°C ~50°C |
| Storage Temperature | -20°C ~60°C |
| Humidity | 0%~95% RH (Non-condensing) |
| Drop Durability | 1.5M |
| Ambient Light | 100,000 Lux (Sunlight) |
| Regulatory | |
| ESD | Functional after 4KV contact, 8KV Air discharge |
| EMC | FCC Part 15B Class B, CE EN55024/32 |
| Safety Approval | EN/IEC62471 (Exempt Group) |
| Environmental | RoHS 2.0, WEEE |
| Symbolgies | |
| 1D | UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code 93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, China Postal Code, MSI Plessey Code, UK Plessey Code, EAN/UCC 128, Telepen Code, IATA Code, GS1 Databar |
| 2D | QR Code, Data Matrix, PDF417, Aztec |

* All specifications are subject to change without notice.



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