

MT86VD(w)+MTD20 2D Engine

MT86VD(w)+MTD20 2D Scan Engine not only delivers snappy scanning performance but also provides versatility needed in various applications. It comes in two versions: the MT86VD+MTD20 long range version and the MT86VDw+MTD20 wide angle version. Both versions blend powerful scanning performance for portable and fixed devices applications.

Long Range and Wide Angle Solution

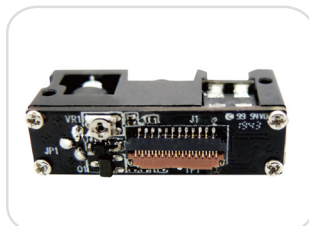
- Read all major 2D barcodes
- Easier targeting barcode with class 1 Laser aimer
- MT86VD provides long reading distance up to 500mm
- MT86VDw supports 3Mil high density barcodes

Compact Decoder Board



Easy and Flexible Operations

- MT86VD(w) : W23.5 x L10.7 x H6.8 mm
MTD20 : W25 x L25 x H2 mm
- Interfaces : UART TTL, USB HID and USB VCP



Optic & Performance	MT86VD	MT86VDw
Light Source	5700K CCT white LED, 650nm visible red Laser	
Sensor	1280 x 800 pixels	
Scan Rate	60 FPS	
Resolution	4mil/ 0.1mm (Code 39) 8mil/ 0.2mm (QR Code)	3mil/ 0.075mm (Code 39) 4mil/ 0.1mm (QR Code)
Scan Angle	Horizontal 41°, Vertical 26°	Horizontal 56°, Vertical 37°
Pitch / Skew / Roll Angle	±60° / ±30° / 360°	
Print Contrast Ratio	30%	
Width of Field	200 mm (13Mil Code39)	220 mm (13Mil Code39)
Typical D.O.F (@ 800 Lux, MTD20 Decoder)	Code 39 15 Mil : 55 ~ 500 mm UPC/EAN 13 Mil : 60 ~ 390 mm QR Code 15 Mil : 50 ~ 340 mm	Code 39 3 Mil : 45 ~ 80 mm UPC/EAN 13 Mil : 60 ~ 390 mm QR Code 15 Mil : 50 ~ 340 mm

Physical Characteristics

Dimension	MT86VD(w) Imager : W23.5 x L10.7 x H6.8 mm MTD20 Decoder Board : W25 x L25 x H2mm
Weight	MT86VD(w) Imager : 1.9g MTD20 Decoder Board : 2.7g
Material	PC
Connector	MT86VD(w) Imager: 25pin ZIF (pitch=0.3mm) MTD20 Decoder: 20pin board-to-board (pitch=0.4mm)
Cable	Imager to Decoder: 25pin flex cable (pitch=0.3mm)

Electrical

Operation Voltage	3.3±0.15 VDC
Working Current	< 320mA
Standby Current	< 110 mA (USB); < 60 mA (UART)
Idle Current (Sleep Mode)	< 2mA

Connectivity

Interface/ Profile	UART TTL, USB HID, USB VCP
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User Environment

Operating Temperature	0°C ~50°C
Storage Temperature	-20°C ~65°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 (requires housing that is designed for ESD protection and stray from electric fields)
EMC	FCC Part 15B Class B, CE EN55024/32
Safety Approval	EN/IEC62471 (Exempt Group)
Environmental	RoHS 2.0, WEEE

Symbologies

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, Micro QR Code, Data Matrix, PDF417, MicroPDF417, Aztec

* All specifications are subject to change without notice.



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