



Small & Weightlight



MT89M 2D Scan Engine

MT89M is a slim-shaped 2D scan engine, electrically and mechanically compatible with some of the most popular scan engines in the world, built with advanced algorithm offering snappy scanning performance at a competitive cost and compact form factor. With great scanning performance, the MT89M 2D scan engine is suitable to be integrated with most of the applications such as retail, logistics, and consumer electronics.

High Performance at Best Value

- High performance at best value
- One-piece low-profile design
- Low power consumption
- Reads all major 2D barcodes

Easy and Flexible Operations

- Small Size : W21.7 x L9 x H7.2 mm
- Interface : UART / USB HID / USB VCP
- Compatible with existing global leaders
- Minimal integration time and cost



Optic & Performance	
Light Source	Visible red LED, white LED
Sensor	Area Image Sensor
Resolution	4mil/ 0.1mm (1D) , 10mil/0.25mm (2D)
Scan Angle	Horizontal 37° , Vertical 28°
Pitch / Skew / Roll Angle	±60° / ±60° / ±360°
Print Contrast Ratio	15%
Width of Field	141 mm (13 Mil Code 39)
Typical D.O.F (@800 lux)	UPC / EAN 13 Mil: 46 ~ 238 mm QR Code 15 Mil : 32 ~ 199 mm
Physical Characteristics	
Dimension	W21.7 x L9 x H7.2 mm
Weight	1.4 g
Color	Black
Material	Plastic
Connector	13 pin ZIF (pitch=0.3mm)
Electrical	
Operation Voltage	3.3 VDC ±5%
Working Current	< 200 mA
Standby Current	< 90 mA
Idle Current (Sleep Mode)	< 800 uA
Connectivity	
Interface/ Profile	UART / USB HID / USB VCP
User Environment	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 70°C
Humidity	5%~95% RH (Non-condensing)
Ambient Light	100,000 Lux (Sunlight)
Regulatory	
ESD	Functional after 4KV contact, 8KV Air discharge
EMC	TBA
Safety Approval	TBA
Environmental	WEEE, RoHS 2.0
Symbologies	
1D	UPC-A/ UPC-E0/ UPC-E1, EAN-8/ EAN-13, Code128 Code39, Code93, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Standard 2 of 5, China Post 25, Code11, MSI Plessey, Plessey, GS1 Databar, GS1 Databar Limited, GS1 Databar Expanded
2D	QR Code, Micro QR Code, PDF417, MicroPDF417, Data Matrix, Aztec, MaxiCode, Han Xin, Code16K

* All specifications are subject to change without notice.

