



MT10 Mini 1D Scan Engine

MT10 mini scan engine is designed for high performance scanning and simple integration. With its very small size and 3.3V low power consumption, MT10 is ideal for all 1D barcode applications of mobile devices where space is limited and power consumption is critical, such as smart phone, tablet PC, industrial PDA and wearable devices.

Simple Integration for Limited Space

- The smallest and lightest 1D scan engine
- Reads all major 1D barcodes in the market
- Fit into the most space-constrained product
- Supports real-time dynamic configurations

Useful Demo Kit: MB100 Multi I/O Board



Easy and Flexible Operations

- Small Size : W14 x L11.9 x H7 mm
- Interfaces : USB HID, USB VCP and UART



Optic & Performance

Light Source	625nm visible red LED
Sensor	Linear Image Sensor
Scan Rate	650 Scans/Sec
Resolution	4Mil/ 0.1mm
Scan Angle	41°
Pitch / Skew / Roll Angle	±30° / ±40° / ±20°
Print Contrast Ratio	30%
Width of Field	140 mm (13Mil Code39)
Typical D.O.F (@800 lux)	C/ EAN 13 Mil: 34 ~ 239 mm

Physical Characteristics

Dimension	W14 x L11.9 x H7 mm
Weight	1 g
Color	Black
Material	PC
Connector	13pin ZIF (pitch=0.5mm)
Cable	13-pin to 12-pin FPC cable (pitch=0.5mm)

Electrical

Operation Voltage	3.3±0.15VDC
Working Current	< 85mA (USB); < 75mA (UART)
Standby Current	< 45mA (USB); < 35mA (UART)
Idle Current (Sleep Mode)	< 500uA (USB); < 300uA (UART)

Connectivity

Interface/ Profile	UART, USB HID, USB VCP
--------------------	------------------------

User Environment

Operating Temperature	-20°C ~ 60°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 EN55022/24/32
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
----	--

* All specifications are subject to change without notice.



MARSON TECHNOLOGY CO., LTD.

TEL: +886-2-2218-1633

FAX: +886-2-2218-6638

Web: www.marsonscan.com

