MT780 Versatile Scan Engine

MT780 mini scan engine delivers user high scanning performance from a minimal form factor. With the ability to scan all 1D barcodes from long distance and a wide field of view, MT780 is ideal for scanner integration in both portable and fixed devices such as smart phone, tablet PC, industrial PDA, lottery kiosk, access gate and more.

High Performance for Mobile Applications

- The small and light barcode 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: W23.7 x L12.2 x H7.5 mm
- Interfaces: USB HID, USB VCP and UART

Optic & Performance	
Light Source	625nm visible red LED
Sensor	Linear Image Sensor
Scan Rate	620 Scans/Sec
Resolution	3Mil / 0.075mm
Scan Angle	53°
Pitch / Skew / Roll Angle	±65° / ±50° / ±25°
Print Contrast Ratio	30%
Width of Field	200 mm (13Mil Code39)
Typical D.O.F (@800 lux)	UPC/ EAN 13 Mil: 30 ~ 338 mm

Physical Characteristics	
Dimension	W23.7 x L12.2 x H7.5 mm
Weight	2 g
Color	Black
Material	PC
Connector	10pin ZIF (pitch=0.5mm)
Cable	10-pin to 12-pin FPC cable (pitch=0.5mm)

Electrical	
Operation Voltage	3.3±0.15VDC
Working Current	< 170mA
Standby Current	< 55mA
Idle Current (Sleep Mode)	< 100uA

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
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 Plessy Code, UK Plessy Code, EAN/UCC 128, Telepen Code, IATA Code, GS1 Databar

＊ All specifications are subject to change without notice.

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