



MT688 2D Scan Engine

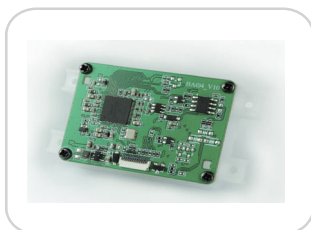
MT688 is a 2D OEM Barcode Scan Engine optimized for effortless mobile barcode scanning. Designed with a low-profile form factor, it fits seamlessly in to space-constrained applications. Its extra-wide-angle optics enables contact scanning of all major 1D and 2D barcodes on mobile displays. The ready-to-use protective window simplifies integration, accelerating the development of mobile barcode scanning platforms. Ideal for retail, logistics, access control and public transport, MT688 delivers reliable performance in diverse environments

Industry-Leading Performance in a Compact Form

- Wide Field of View (72° x 54°)
- Slim, Low Profile Design
- Versatile Interfaces Options
- Real-time Dynamic Configurations

Easy Integration, Flexible Operation

- Small Size: W33.4 x L55 x H13.1 mm
- Interface: UART / USB HID / USB VCP
- Compatible with existing global leaders
- Minimal integration time and cost



Optic & Performance	
Light Source	White LED
Sensor	640 x 480
Resolution	5mil/ 0.125mm (1D), 7.5mil/ 0.175mm (2D)
Scan Angle	Horizontal 72° , Vertical 54°
Pitch / Skew / Roll Angle	±55° / ±55° / ±360°
Print Contrast Ratio	20%
Typical D.O.F. (@800 lux)	13 Mil UPC/EAN: 35 ~ 145mm
Physical Characteristics	
Dimension	W33.4 x L55 x H13.1 mm
Weight	27g
Color	White
Material	Plastic
Connector	6pin Wafer (pitch=1.25mm), 12pin ZIF (pitch=0.5mm)
Electrical	
Operation Voltage	3.3 VDC (Customizable)
Working Current	< 220 mA @5V
Connectivity	
Interface/ Profile	UART TTL / 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/RF	TBA
Environmental	RoHS 2.0
Symbolologies	
1D	EAN-13, EAN-8, UPC-A, UPC-E, Code 39, Code 128, ISBN, Code 93, Code 11, GS1-128, GS1 Databar, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Codabar, Standard 2 of 5, MSI Plessey, GS1 Composite
2D	PDF417, Data Matrix, QR Code, Aztec, MaxiCode

* All specifications are subject to change without notice.



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