



MT82Ag 2D Scan Engine

MT82Ag One-piece Compact 2D Scan Engine provides snappy scanning performance at a competitive cost and compact form factor. With its all-in-one design, MT82Ag 2D scan engine can be easily integrated with specific applications such as access control, lottery kiosk and consumer electronics.

One-piece Compact 2D Scan Engine

- One-piece 2D imager and decoder board design.
- Outstanding 1D and 2D scanning performance
- Integrated into the most space-constrained product
- Support real-time dynamic configurations

Easy and Flexible Operations

- Small Size: W21.3 x L14.4 x H10.9 mm
- Interfaces: USB TTL, USB HID and USB VCP

Applicaition Area



Optic & Performance

Light Source	white LED, visible red LED bar
Sensor	640 x 480 pixels
Resolution	5mil/ 0.125mm
Scan Angle	Horizontal 35°, Vertical 27°
Pitch / Skew / Roll Angle	±55° / ±55° / 360°
Print Contrast Ratio	10%
Width of Field	156mm (13Mil Code39)
Typical D.O.F (@800 lux)	UPC/EAN 13 Mil : 50 ~ 250 mm QR Code 15 Mil : 30 ~ 180 mm

Physical Characteristics

Dimension	W21.3 x L14.4 x H10.9 mm
Weight	2.6g
Material	Plastic
Connector	12pin ZIF (pitch=0.5mm)
Cable	12pin flex cable (pitch=0.5mm)

Electrical

Operation Voltage	3.3 VDC
Working Current	< 110mA
Standby Current	< 60mA
Idle Current (Sleep Mode)	N/A

Connectivity

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

Operating Temperature	-20 ~ 60°C
Storage Temperature	-40 ~ 80°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 Part15B, CE EN55032/35
Safety Approval	EN62471 (Exempt Group)
Environmental	WEEE, RoHS 2.0

Symbologies

1D	UPC-A/UPC-E, EAN-8/EAN-13, Codabar, Matrix 2 of 5, Code 93, Code 128, Code 39, Interleaved 2 of 5
2D	QR Code, Data Matrix, PDF417

* All specifications are subject to change without notice.



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