



MT82W Wide Angle 2D Scan Engine

MT82W Wide Angle 2D Scan Engine is a highly versatile and compact scanning solution with the widest angle and advanced decoding technology, making it ideal for near-field, wide angle scanning applications. Its small form factor and light weight allow seamless integration into space-constrained devices. It also offers multiple interfaces and dynamic configurations, ensuring easy communication and flexible reading modes and settings for individual preferences.

Excellent Performance in Near-Field Scanning

- Ideal for Near-Field, Wide-Angle Scanning
- Widest scan angle up to 74° x 58°
- Nearest focus from 20mm away
- Read all major 2D barcodes

Easy and Flexible Operations

- Small Size : W22 x L14.6 x H11.7 mm
- Interface : UART / USB HID / USB VCP

Applicaition Area



Optic & Performance	
Light Source	White LED, Visible red LED
Sensor	640 x 480
Resolution	3.9mil/ 0.0975mm (1D) / 5mil/ 0.125mm (2D)
Scan Angle	Horizontal: 74° Vertical: 58°
Pitch / Skew / Roll Angle	±70° / ±70° / ±360°
Print Contrast Ratio	20%
Width of Field	87 mm (13Mil Code39)
Typical D.O.F (@800 lux)	UPC/ EAN 13 Mil: 26 ~ 100 mm Data Matrix 10 Mil: 23 ~ 77 mm
Physical Characteristics	
Dimension	W22x L14.6 x H11.7 mm
Weight	3.3g
Color	Black
Material	Plastic
Connector	12pin ZIF connector (pitch = 0.5mm)
Cable	12pin flex cable (pitch=0.5mm)
Electrical	
Operation Voltage	3.3VDC ± 5%
Working Current	Max.220mA
Standby Current	Typ.140mA
Idle Current (Sleep Mode)	Typ. 20mA
Connectivity	
Interface/ Profile	UART / USB HID / USB VCP
User Environment	
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-10°C ~ 60°C
Humidity	5%~95% RH (Non-condensing)
Ambient Light	50,000 Lux (Sunlight)
Regulatory	
ESD	Functional after 4KV contact, 8KV air discharge
EMC	TBA
Safety Approval	TBA
Environmental	RoHS 2.0, WEEE
Symbolologies	
1D	Codabar, Code 39, Code 32, Interleaved 2 of 5, Code 93, Matrix 2 of 5, Industrial 2 of 5, Code 11, Code 128, GS1-128, UPC-A, UPC-E, EAN/JAN-8, EAN/JAN-13, GS1 DataBar(RSS14), MSI Plessey
2D	QR Code, Micro QR, Data Matrix, PDF417, MicroPDF417, Aztec, Han Xin

* All specifications are subject to change without notice.



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