

# Mini 1D Engines Comparison

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**MARSON**<sup>®</sup>



Model No	MT10	MT15	MT16	MT20	MT780
Product Name	Mini Scan Engine	Ultra-Mini Scan Engine	Mini Scan Engine	Mini 1D Barcode Imager	Versatile Scan Engine
Scan Rate	650 Scans/ sec	500 Scans/ sec	180 Scans/ sec	310 Scans/ sec	620 Scans/ sec
Width of Field	140mm (13Mil Code39)	171mm (13Mil Code39)	105mm (13Mil Code39)	200mm (13Mil Code39)	200mm (13Mil Code39)
Resolution	4mil/ 0.1mm	5mil/ 0.125mm	5mil/ 0.125mm	4mil/ 0.1mm	3mil/ 0.075mm
Typical D.O.F (Environment: 800 lux)	13 Mil UPC/ EAN: 34 ~ 239mm	13 Mil UPC/ EAN: 45 ~ 277mm	13 Mil Code128: 90 ~ 170mm	13 Mil UPC/ EAN: 50 ~ 300mm	13 Mil UPC/ EAN: 30 ~ 338mm
Dimension	W14 x L11.9 x H7 mm	W11.5 x L10 x H7.2 mm	W14 x L10 x H9.5 mm	W17.7 x L12.1 x H8.3 mm	W23.7 x L12.2 x H7.5 mm
Weight	1g	0.7g	1g	1.4g	2g
Connector	13pin ZIF (pitch=0.3mm)	8pin Gold Fingers	8pin Gold Fingers	10pin Gold Fingers	10pin ZIF (pitch=0.3mm)
Operating Voltage	3.3±0.15VDC	3.3±0.15VDC	3.3±0.15VDC	3.3±0.15VDC	3.3±0.15VDC
Working Current	< 85mA (USB) < 75mA (UART)	< 55mA	< 75mA	< 120mA	< 170mA (USB)
Standby Current	< 45mA (USB) < 35mA (UART)	< 30mA	< 25mA	< 10mA	< 55mA (USB)
Idle Current (Sleep Mode)	< 500uA (USB) < 300uA (UART)	< 500uA	< 500uA	N/A	< 100uA (USB)
Interface/ Profile	UART TTL, USB HID/VCP	UART TTL	UART TTL	Analog Output	UART TTL, USB HID/VCP
Operating Temperature	-20°C ~ 60°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	-20°C ~ 60°C
Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
Ambient Light	100,000 Lux (Sunlight)	100,000 Lux (Sunlight)	70,000 Lux (Sunlight)	70,000 Lux (Sunlight)	100,000 Lux (Sunlight)
Symbologies	All major 1D symbologies	All major 1D symbologies	Any single 1D symbology	Depends on decoder software	All major 1D symbologies



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