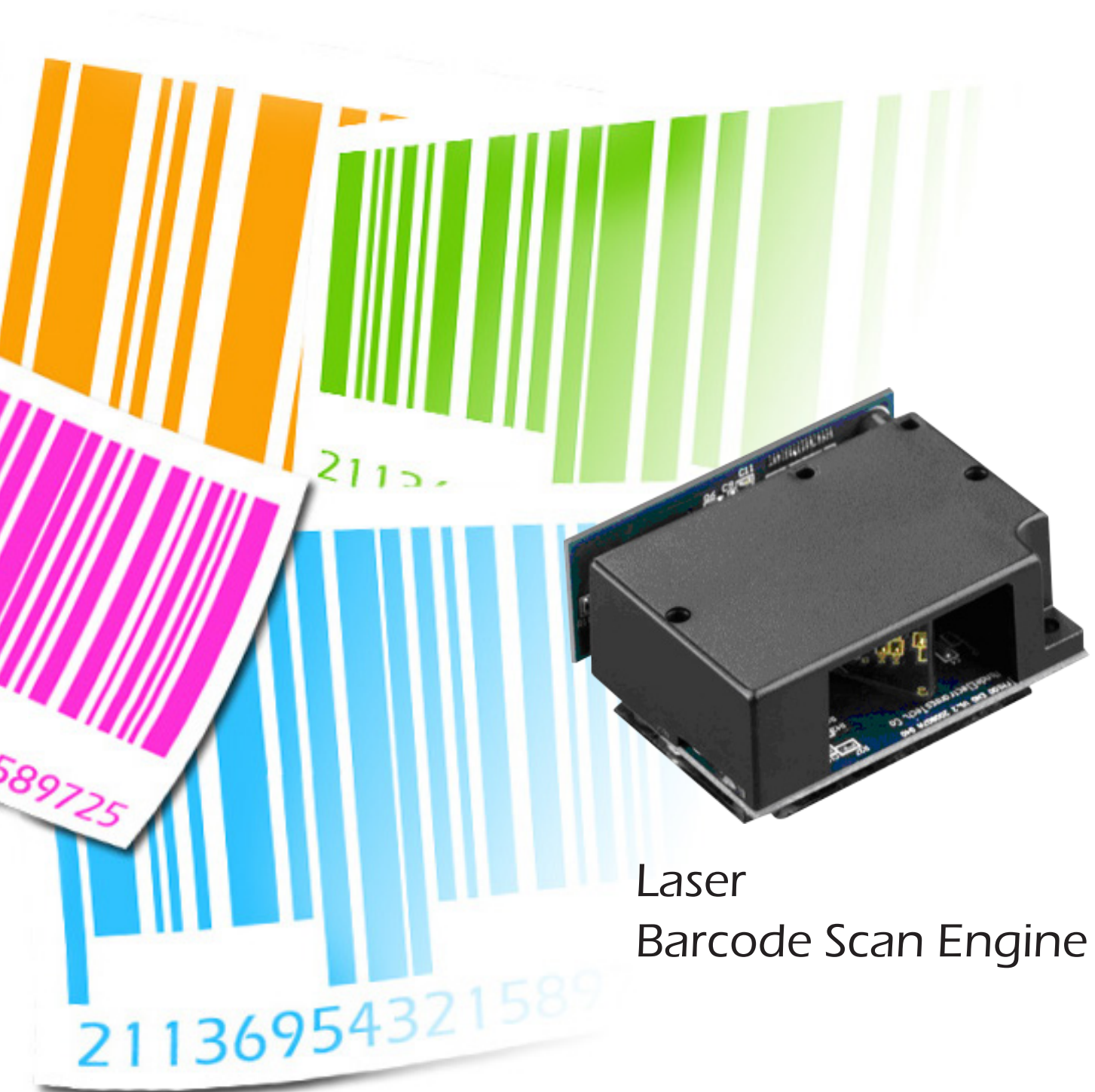


# 1D Laser Scan Engine

# FM-100



Laser  
Barcode Scan Engine

# 1D Laser Scan Engine

# FM-100

## Features



1. Customized decode resolution model of 5mil or 3mil.
2. Compatible with the physical interface and parameter settings of other brands' models.

## Specifications

Performance Characteristics			
Laser	650nm laser diode	Scan mode	Good-read off, Continuous
Scan rate	46±4 scans/second	Firmware upgrade	Online
Scanning angle	±50°, ±65°, ±35° (Skew, Pitch, Roll)		
Decode capability	UPC-A, UPC-E, EAN-13, EAN-8, ISBN/ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5 (Discrete 2 of 5), Matrix 2 of 5, Codabar (NW7), Code 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, UCC/EAN 128, China Post, GS1 DataBar (formerly RSS) variants		
Programming method	Manual (scanning special barcode in sequence)		
Decoding depth & Max. resolution (1 mil = 0.0254 mm)	Long-range series	High-density series	
	5 mil: 40-110mm	3 mil: 5-50mm	
	13 mil: 15-315mm	13 mil: 10-150mm	
	16 mil: 25-385mm	16 mil: 25-165mm	
	35 mil: 145-630mm	35 mil: 145-295mm	
Physical Characteristics			
Dimensions	Height × Width × Depth: 17.5mm × 40mm × 33.7mm	Indicator interface	To control external Beeper and LED
Weight	22g (with decoder), 19g (without decoder)	Interface supported	UART (TTL3.3V)
Cable	Tapered 12-pin flex strip (12 x 0.5mm) with decoder, Tapered 8-pin flex strip (8 x 0.5mm) with decoder		
User Environment			
Power	Input voltage	3.3 VDC ± 5%	Temperature
	Scanning current	85mA typical/100mA maximum	
	Standby current	<250µA	Humidity
Regulatory			
Safety	Laser safety: EN60825-1, Class 1		
	EMC: EN 55022, EN 55024		
	Electrical safety: EN 60950-1		
	Emissions: CE		

\*Specifications subject to change without notice.

