





# BAR-10 1D

## Scan mobile barcodes on LCD displays

BAR-10 1D mini barcode scan engine, though small and lightweight, scans all 1D barcodes from near to far over 300 mm away. At 200 scans per second, it is built with the latest decode algorithm that not only increases the reading distance by nearly 20% but ensures that all barcodes, on either printed paper down to 4 Mil or LCD glass screen down to 6 Mill, can be read easily in everyday working environment, hence providing the flexibility and productivity for a wide variety of uses.

## High performance and Small Volume

The size of BAR-10 1D mini barcode scan engine is only W23.7 x L12.2 x H7.5 mm or W0.93 x L0.48 x H0.29 inches and makes integration of barcode scan ability more flexible for most of the products with limited space. Screws holes are also available on both sides top and bottom, which means BAR-10 1D can be mounted upside down for better cable connection or space consideration in some specific cases, thus providing unparalleled flexibility for product design.

Optical & Performance	
Light Source	625nm visible red LED
Sensor	Linear Imager sensor
Scan Rate	620 Scans/Sec (Smart Detection)
Resolution	4mil/0.1mm
Scan Angle	53°
Print Contrast	30%
Width of Field	200mm (13Mil Code39)
D.O.F (Environment:800lux)	4Mil Code39: 60mm - 125mm 5Mil Code39: 50mm - 160mm 10Mil Code39: 30mm - 280mm 15Mil Code39: 30mm - 370mm 13Mil UPC/EAN:30mm -320mm
Physical Characteristics	
Dimension	W23.7 x L12.2 x H7.5 mm
Weight	2g
Color	Black
Material	PC
Cable	10pin to 12pin (pitch = 0.5mm) flex cable
Power	
Operation Voltage	3.3 VDC ± 5%
Working Current	< 170mA
Standby Current	< 60mA
Idle Current	< 100uA
Surge Current	< 500mA

User Environment	
Operating Temperature	0~50°C
Storage Temperature	-20~60°C
Humidity	0%~95%RH (Non-condensing)
Drop Durability	1.5M
Ambient Light	100,000 Lux (Sunlight)
Configuration Method	Configuration barcodes Configuration Utility(EzU/ BEO)
1D Symbolgies	UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code 93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, China Postal Code, MSI Plessey Code, UK Plessey Code, EAN/UCC 128, Telepen Code, IATA Code, GS1 Databar
Regulatory	
EMC	FCC – Part15 Subpart B (Class B), CE – EN55022, EN55024
ESD	Functional after 4KV contact, 8KV Air discharge
Safety	IEC 62471 (Exempt group)
Environmental	WEEE, ROHS 2.0
Connectivity	
Interface	UART (TTL-level RS232) USB (HID Keyboard)