



# Compact Laser Engine

## Features

- New Generation ultra small laser engine.
- No moving- parts inside technology.
- With quicker decode rate.
- Class I Safety Laser.
- Other optional version-Able decode under strong sunshine.
- Other optional version-Able decode RSS barcode RSS(GS1),  
RSS EXPANDED & RSS limited.
- Got worldwide patents including (USA, Germany, Japan, Taiwan, China).
- Suitable for Mobile device. PDA. Data collector. Tablet PC.



## Laser Engines Specifications

Model Name	LR2500	LR2500E
Description	With Decoder	With Decoder

## Performance Characteristics

• Light source	650 nm Laser Diode	
• Depth of field(40 mil)	Up to 520 mm	
• Scan speed	100 scans/sec	
• Best resolution	0.1mm ( 4 mil) Code 39	
• Reading angle	38°	
• Interface	USB & UART	K/B & UART
• Print contrast	45% or more	
• Symbologies	Code 128, Codabar, Interleave 25, Industrial 25, Matrix 25, China postage, UPC-A, UPC-E, EAN-8, EAN-13, ISBN, MSI, code11, code 39, code 32, code 93, PLESSEY, TELEPEN	UPC-A, UPC-E, EAN-8, EAN-13, ISBN, Code11, Code 39, Code 93, Code 128, Codabar, Interleave 25, Industrial 25, MSI

## Electrical Characteristics

• Input voltage	3.3V ~ 5V ± 5%
• Current - operating	65 mA max.

## Physical Characteristics

• Dimension(W * D * H)	24.5 X 21.7 X 13.05 mm (5V) 24.5 X 25.0 X 13.05 mm (3.3V)	41.9 X 36.4 X 18.8 mm
• Weight	8 g	10 g
• Connection	12 pins FPC connector	

## Environment

• Temperature-operation	0°C to 50°C
• Temperature-storage	-10°C to 60°C
• Humidity-operation	10% to 85% relative humidity, non-condensing
• Humidity-storage	5% to 95% relative humidity, non-condensing
• Ambient Light	Fluorescent Light 300 lux to Sun Light 30000 lux

## Decode Zone (Based on Symbol's Standard Code 39 PCS=0.9 label and 600 lux environment. There are +/- 1 cm tolerance)

• 4 mil	60 ~ 90 mm
• 5 mil	65 ~ 140 mm
• 13 mil	50 ~ 270 mm
• 20 mil	60 ~ 340 mm
• 40 mil	85 ~ 520 mm

Product specification is subject to change without notice.

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