



RT207

Super Small OEM 2D Barcode Scanner Engine

The RT207 is outstanding for ultra small design(21×9.2×8mm), low power consumption, good performance for even poor printed 1D/ 2D bar codes and for on-screen bar codes even if the screen is covered with protective film or the screen with low brightness level, with TTL232 interface.

Its specially suitable for devices with small space inside, for example: POS, PDA, or other kinds of portable device, but of course, can be used for big devices such as kiosk terminals.



Features:

- High performance: even for poor printed bar codes or read from lower brightness smart phone screen.
- Ultra small.
- TTL232 interface.
- Low power consumption , more durable.
- Readable most 1d 2d QR PDF417, Data Matrix codes.
- Suitable for mobile device like PDA, POS and others small device.
- Flexible Integration: the decoder board and the imager can be separately mounted, which provides flexibility for integration into small space.

Specification:

Mechanical

Dimensions (DxWxH)	Imager: (21×9.2×8)mm. Decoder board: (21×21×1)mm
Weight	15 g

Electrical

Operation Voltage	3.0-3.6 VDC
Operating Power	0.693 W (210mA @ 3.3VDC)
Standby Power	0.0231 W (7mA @ 3.3 VDC)
Current when sleep	<5uA
Interfaces	TTL-232, USB (HID-KBW)
Light source	Red LED 625±10 nm

Environmental

Operating Temperature	-20°C to 60°C
Storage Temperature	-40°C to 80°C
Humidity	5% to 95% relative humidity, non-condensing
Ambient light	0 to 100,000 lux

Scan Performance

Scan Pattern	Area Imaging
Image sensor	648*480 pixels CMOS, resolution≥5mil
Field of view	Horizontal 44°, Vertical 33.2°
Symbol Contrast	≥30% reflectance difference
Pitch, Skew,rotate	±40°, ±40°, 360°
Warranty	1 year factory warranty
Decode Capability	1D: Code128, UCC/EAN-128, AIM-128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBarTM(RSS), (RSS-14, RSS-Limited,RSS-Expand) 2D: PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140)

Decode range

Code 39(5mil)	30mm-180mm
EAN-13 (13mil)	45mm-380mm
PDF417	30mm-125mm
QR code	25mm-165mm
Data Matrix	20mm-115mm



Performance may be impacted by bar code quality and environment conditions.