

ES4610+

Embedded Image Scanner

1D/2D

Features

- With a new generation of master control chip, the decoding performance is better and the power consumption is lower
- Compact design allows easy integration into different host devices
- Read all common 1D/2D paper barcodes and mobile barcodes
- Advanced image induction technology ensures rapid induction of barcodes, even through a transparent lens in front of the scanning window
- Support external and serial trigger modes
- Soft white auxiliary lighting and green aimer deliver comfortable and convenient scanning experience

ES4610+ Technical Specifications

Mechanical & Electrical Characteristics

Dimensions	43.5 mm × 41 mm × 19.0 mm (Height × Width × Depth)
Weight	70 g (without cable)
Indicator Interface	Beeper
Interface Supported	RS232, USB, USB virtual COM
Trigger Mode	Hand-held, Auto-detect, Command
Input Voltage	5.0 ± 0.25 V DC
Current	White LED: 345 mA (Working), 90 mA (Standby) Red LED : 202 mA (Working), 92 mA (Standby)

Performance Characteristics

Image Size	640 × 480 pixels
Imager Field of View	Horizontal: 48°, Vertical: 38°
Scanning Angles	± 58°, ± 65°, 360° (Skew, Pitch, Roll)
Print Contrast	20% minimum reflective difference
Decoding Capability	All common 1D/2D paper barcodes and mobile barcodes
Minimum Resolution	1D: 4 mil Code 128, 1 mil = 0.0254 mm
	4 mil Code 128 (9 chars): 1.5 cm - 4.0 cm
	10 mil Code 39 (3 chars): 1.0 cm - 15.0 cm
	13 mil UPC (6 chars): 0.5 cm - 16.0 cm
Decoding Depth	20 mil Code 39 (1 char): 2.5 cm - 34.0 cm
	6.7 mil PDF417 (20 chars): 1.2 cm - 7.0 cm
	10 mil QR (20 chars): 0.5 cm - 8.5 cm
	20 mil QR (20 chars): 1.0 cm - 20.0 cm

Environmental Characteristics

Temperature	-10°C to 45°C (operating), -35°C to 70°C (storage)
Humidity	5% to 95% (non-condensing)
Mechanical Vibration	IEC60064-2-6 Un-powered scanner withstands a random vibration along each of the X, Y and Z axes for a period of one hour per axis, define as follows: 20 Hz to 80 Hz Ramp up to 0.04 G ² /Hz at the rate of 3 dB/oct 80 Hz to 350 Hz 0.04 G ² /Hz 350 Hz to 2000 Hz Ramp down at the rate of 3 dB/oct
Mechanical Shock	IEC60064-2-27 Shock pulse: 0.5 ms, Maximal acceleration: 1500 G, Shock direction & time: ±X -axis, ±Y-axis, ±Z-axis, 3 times for each direction, total of 18 times.
Safety	Photobiological Safety: EN62471:2008 EMC: EN55022 ESD Protection: EN55024 (IEC61000-4-2, contact discharge: ±2 KV, air discharge: ±8 KV, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-11) RF Immunity: IEC61000-4-3, 10 V/m Artificial Light Immunity: 100,000 Lux

[Notice]: Specifications are subject to change without notice.

For more information:
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