

**EM1300**  
OEM Scan Engines

## Features

### Easy Integration.

Seamless integration of the imager and decoder board makes the EM1300 small, lightweight and easy to fit into small-sized equipment. At only 28.2 x 23.4 x 11.2mm, it is ideal for integration into devices where space is at a premium.

### Quick and Easy 1D Scanning.

Leveraging its CCD sensor, the EM1300 can reach up to 300 successful scans per second. Whether printed on paper, plastic, or shown on a mobile screen, all common 1D barcodes are captured efficiently and effectively.

### A True Allrounder.

Designed and built to match a wide range of scanning applications, this high performance 1D engine can be easily integrated into various solutions. From customer-facing to staffed operations and from large stationary hardware like ticketing machines to small and portable mobile computers.

### Processing Power.

Running on a powerful processor, the EM1300 offers the flexibility to adapt firmware to your environment and application in a quick and simple way.

## Suggested industries



Gaming



Healthcare



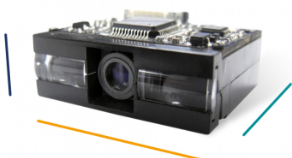
Industrial



Manufacturing



Parking



11.2 mm

28.2 mm

23.4 mm

# EM1300 Technical specifications

## Performance

|                          |   |
|--------------------------|---|
| Image Sensor             | CCD 2500  |
| Illumination             | LED(622 nm - 628 nm)  |
| Minimal Print Contrast   | 25%   |
| Scan Angle Roll          | 30°   |
| Scan Angle Pitch         | ±65°  |
| Scan Angle Skew          | ±60°  |
| Field of View Horizontal | 42°   |
| Scan Modes               | Handheld Mode, Auto Mode, Interval Mode, Sensor Mode, Continuous Mode, Command Triggered Mode |
| Scan Rate                | 300 scans per second  |
| Decode Rate              | 200 decodes/sec (default)   |

## Data Capture

|    |  |
|----|--|
| 1D | All major 1D symbologies, including Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93. |
|----|--|

## Physical

|                            |                              |
|----------------------------|------------------------------|
| Dimensions (mm)            | 28.2×23.4×11.2mm             |
| Weight                     | 6g                           |
| Material                   | ABS                          |
| Interfaces                 | TTL-232                      |
| Input Voltage              | 3.3VDC±5%                    |
| Current @ 3.3VDC Operating | 57 mA (Typical), 89 mA (Max) |
| Current @ 3.3VDC Standby   | 28 mA                        |
| Sleep Current              | 11 mA                        |
| Power Consumption          | 188 mW                       |

## Environmental

|                       |                         |
|-----------------------|-------------------------|
| Ambient Light         | 0 ~ 100,000 LUX         |
| Operating Temperature | -20°C - +60°C           |
| Storage Temperature   | -40°C - +85°C           |
| Humidity              | 5%~95% (non-condensing) |

## Accessories

|          |   |
|----------|---|
| Standard | 75mm flexible flat cable (FFC), EVK3030-U |
|----------|---|

## Certifications

|          |                                    |
|----------|------------------------------------|
| Hardware | CE EMC Class B, FCC Part15 Class B |
|----------|------------------------------------|

## Warranty

|          |         |
|----------|---------|
| Standard | 2 years |
|----------|---------|

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Specifications are subject to change without notice

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