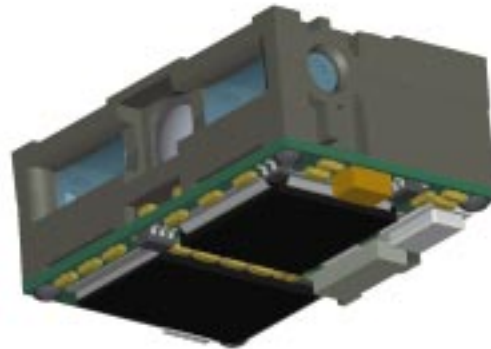


OEM SCAN ENGINE

E1022

Benefits:

- **Exceptional reading performance (up to 50 cm/19.6")**
- **Unbeatable for long, damaged, poorly printed, very high density barcodes**
- **Industry-standard form factor**
- **Easy to integrate**
- **Long lifetime, very reliable**
- **Advanced CCD technology for safe scanning**
- **Extremely competitive price**



The E1022 scan engine is the ultimate choice for your OEM design: it will meet your highest requirements for an extremely competitive price.

This module concentrates the exceptional performance of the best-selling ScanPlus 1800 Vista™ into a very compact, industry-standard form factor:

- *Unique reading performance*

The E1022 can read barcodes up to a distance of 50 cm (19.6") with an auto-adaptive scan rate of up to 270 scan/s. It can read any type of code: poorly printed, damaged, wide (up to 18 cm/7"), high density (down to 0.05 mm/2 mil, unique in the market place). It can be used in any lighting conditions from total darkness to full sunlight (100,000 lux).

- *Outstanding reliability*

With no moving parts and no laser diode, the E1022 has a longer life than any laser scanner. It can withstand multiple 1 m (3.2') drops on concrete and can be used in a wide temperature range.

- *Safe to use*

Laser scanners can be harmful if the user looks accidentally into the beam. The E1022 lighting is produced by LEDs that are absolutely safe for the user.

- *Easy to integrate*

Integrating an OEM module has never been so easy.

Designing a new product?

The E1022 is easy to control. It features embedded power management, bi-directional serial link for dynamic configuration and a flash memory for firmware upgrade.

Want to boost your existing design?

No need to waste time and money to design a new board: the E1022 has an industry-standard form factor and is available in both decoded and undecoded versions with a large choice of connectors to fit your existing board.

Give Vista power to your device, choose the E1022 scan engine for unequalled performance!

E1022

General

The E1022 Vista is a high performance and compact CCD scan engine for OEM devices.

Scanning Performance

Scan rate: 270 scans/s auto-adaptive.

Min. x dimension: down to 0.05 mm (2mil)

Depth of field: 0 to 49.2 cm (19.4")

Bar width		Max. distance		Max distance on Code 39*	
mm	mil	cm	inch	cm	inch
0.1	4	16.2	6.4	23.0	9.0
0.2	8	23.0	9.0	26.4	10.4
0.3	12	26.2	10.3	36.0	14.17
0.5	20	34.5	13.6	49.2	19.4
1	40	49.2	19.4	49.2	19.4

*Advanced Intermec decoding technology

Barcode width: up to 18 cm (7") on 0.3 (12 mil) resolution code

Print contrast: down to 20%

Scan angle: 48°

Skew: +/-35°

Pitch: +/-35°

Design

Processor: custom chip (ASIC inc. DSP processor) for fast signal processing and decoding. Flash memory

Sensor: CCD linear image sensor

Optics: 645 nm visible red top LED

Bright and sharp scanning line

Physical

Height: 16 mm (0.63")

Width: 38.2 mm (1.5")

Depth: 25 mm (0.98")

Weight: 17 g (0.6 oz.)

Symbologies

UPC (E&A), EAN, Code 39, Code 128, UCC EAN 128, ISBN, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93, MSI, Plessey, Telepen.

Others including ISBT on request.

Interfaces

Undecoded: industry standard output (DBP)

Decoded: RS232 TTL

Connectors

Undecoded: 10 pin ZIF (SE900 compatible), 8 pin ZIF (SE1200 compatible)

Decoded: 12 pin ZIF connector

Electrical Characteristics

Voltage: +5VDC +5%

Current: 140 mA typical

Standby current: 40µA

Environmental Characteristics

Operating temperature: 0 to 50°C (32 to 122°F)

Storage temperature: -25 to 70°C (-11 to 160°F).

Relative humidity: 5% to 95% (non-condensing)

Shock: withstands multiple 1m (3') drops on concrete

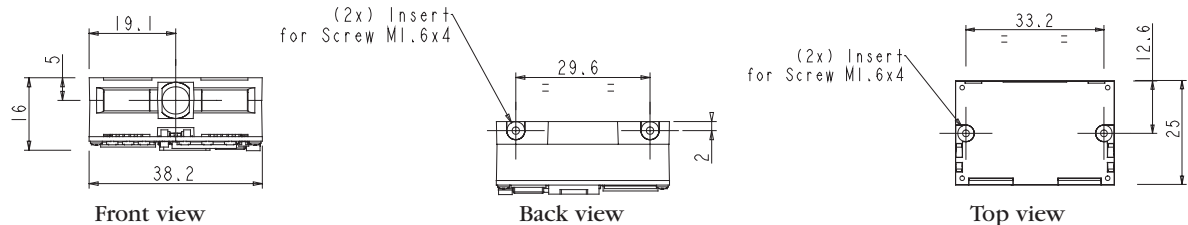
Ambient light: works in any lighting conditions, from 0 to 100 000 lux

Accessories

Demo board kit compatible with Intermec standard cables.

Configuration (decoded interface only)

Setup options include EasySet PC Windows™ software and dynamic RS232 configuration.



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