

ED30

2D DECODE BOARD
Standard Performance
RS 232 TTL Interface



- **Compatible with EA11 and EA20X Intermec 2D imager optics – maximizes and leverages your electronic design**
- **Very compact form factor – fits the tightest mechanical constraints**
- **RS 232 TTL high speed interface – uses the industry standard interface for maximum compatibility**
- **Patented high performing Intermec decoding software – avoids the exception process**
- **Low power consumption modes – optimizes battery autonomy**
- **Plug compatible with the ED40 decode board – provides easy and cost effective upgrades**

The Intermec ED30 decode board is compatible with the EA11 and EA20X 2D Imagers, so that developers can leverage their design efforts. It uses the same Intermec Scanner Control Protocol, the same configuration tools (EasySet) and same pin out developed for all Intermec engines.

ED30 provides RS 232 TTL interface, the industry interface standard, and supports high speed communication (up to 460 800 baud).

ED30 very compact design matches very tight mechanical constraints, easing your integration work. You can choose the hardware configuration that suits best your design, as the ED30 can be separated from the optics or bracket mounted to the optics. For an even more compact version, Intermec offers a reference design option (contact your Intermec OEM sale representative or local partner for more information).

Powered by Intermec patented decoding and leading edge hardware, ED30 offers exceptional scanning performances on 1D and 2D barcodes and is ideal for scan intensive applications.

Intermec designed the ED30 to reduce power consumption to the minimum: a wide range of power saving modes is offered to you, so that you can adjust to your requirements.

It is also plug compatible with the Intermec ED40 high performance decode board, so that you can reduce time to market and promoting easier product migration.

By choosing the ED30, you also increase your market breadth by being able to offer the industry widest 2D imager range, from arm reach (EA11) to extended range scanning (EA20X) .

As part of the Intermec OEM family, ED30 is designed to work in the most hostile environments. It operates a large temperature range and complies with the most stringent standards for shock and vibration.

By choosing Intermec, you are choosing to work with the industry's imaging market leader: With more than 40 years of experience, Intermec offers the widest range of 2D Imagers and maintains a dedicated in house engineering team specialized in imaging and decoding, securing your partnership for the long term.

Physical Characteristics

Dimensions: 38.1mm W x 25.4mm D x 7.08 H mm
(1.5in x 1.0in x 0.28 in)
Weight: 6 g (0.21 oz)

Interface

RS-232TTL high Speed (up to 460 800 baud)

Performance Characteristics

1D symbologies: EAN/UPC, GS1 Databar (limited expanded & omni-directional), RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes (USPS Intelligent Mail, Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post)
2D symbologies: Data Matrix, PDF417, Micro PDF 417, Codablock Maxicode, QR, Aztec GS1 composite codes
Image Capture Signature capture and document imaging.
Image Format: JPEG, TIFFG4

Electrical Characteristics

Operating Voltage: 3.3 V (3.2 V to 3.6 V)
Operating Current: (typical) 130 mA @ 3.3 V and 25°C / 77°F
(decode board only)

ED30 + 2D Optics: Please refer to the ED30 Integration Guide for detailed information

Environmental Characteristics

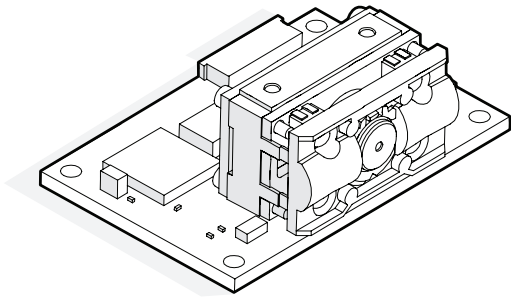
Operating temperature: -20°C to 60°C / -4°F to 144°F
Storage temperature: -30°C to 70°C / -22°F to 158°F
Relative humidity: 0 to 95% non-condensing
Shock: 2000 Grms, 0.7 ms, half sinus, 3 axes
Vibration: 8 Grms, from 10Hz to 500Hz, 2 hour/axis, 3 axes
Thermal shock: 32 cycles of -40°C / 85°C (25°F / 185°F) 30 minutes @ each temperature

Regulatory Approvals

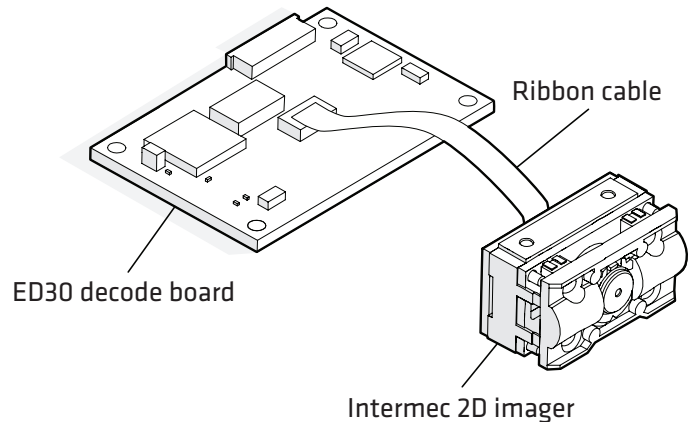
UL, cUL, EN 60950 VDE, FCC Class A & B, RoHS, WEEE

ED30 Mounting Schemes

Mounted



Unmounted



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