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Overview

MEC-COM-2032i is a serial communication card for embedded PC. The card follows the M.2 standard which is complaint with PCI Express x 1 classification and M.2 form factor. This board fits in any host computer that has M.2 slots.

Top Performance

MEC-COM-2032i has 2 RS-232/422/485 serial ports, each individual port supports 921.6 Kbps baud rate. The combination features 15KV ESD protection, FIFO 256 Bytes, HW/SW automated flow control and extended operating temperature which enhances the board's reliability and performance.

High Usability

MEC-COM-2032i is designed with flexibilities for many different applications. The seral RS-232/422/485 mode can be configured by DIP switches. The accessories (bracket, connection / cable) are included in the standard package.

Specifications

General PCI-Express Revision: PCI-Express Base Specification Rev 2.0 PCI-Express Electromechanical Revision: PCI-Express M.2 Electromechanical Rev. 1.1

Hardware

Controllers: XR17V352 (16C550C compatible) **Bus:** Single-Lane (x1) PCI-Express with throughput up to 5.0 / 2.5Gbps Interface (Connector) RS-232/422/485: 2 (DB9 male)

Serial Line Protection ESD Protection: 15 KV on board

Galvanic Isolation Voltage: 2.5 kV

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Sales office Austria sales@spectra-austria.at Spectra (Schweiz) AG sales@spectra.ch



Performance

Baud Rate: Asynchronous baud rates up to 921.6 Kbps

Serial Communication Parameters

Data Bits: 5, 6, 7, 8 Stop Bits: 1, 1.5, 2 Parity: • No Parity bit • Even Parity bit

- Odd Parity bit
- Parity bit forced to 1
- Parity bit forced to 0

Flow Control: RTS/CTS, XON/XOFF

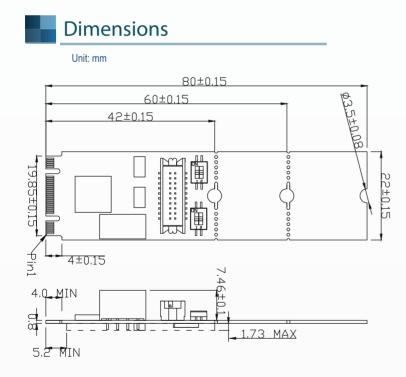
Serial Signals

RS-232: TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND, RI **RS-422:** TXD+, TXD-, RXD+, RXD-**RS-485:** DATA+, DATA-

Driver Support Operating Systems: Win 7, Win 8, Win 10

Power Requirement

Power Consumption: 155mA@3.3V



Ordering Information

Available Models

MEC-COM-2032i

M.2 2242/2260/2280 2-port RS-232/422/485 isolated serial board

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Dimensions

Width x Length (mm): 22.00 x 42.00 22.00 x 60.00 22.00 x 80.00

Environmental Limits

Operating Temperature: $-40^{\circ}C \sim 85^{\circ}C$ Storage Temperature: $-40^{\circ}C \sim 95^{\circ}C$ Humidity: $5\% \sim 95\%$

Regulatory Approvals

EMC: CE, FCC EMI: EN 55022, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B Class B EMS: EN 55035, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC-60950

Reliability

Warranty: 3 years

Package Checklist

- M.2 Card x 1
- Bracket x 1
- 20Pin Internal Cable w/ two DB9 Male
 Connectors (30cm) x 1
- Quick Installation Guide (Printed) x 1



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