MEC-COM-2012

M.2 2242/2260/2280 2-port RS-232 serial board with power input

- Single-Lane (x1) PCI-Express with throughput up to 5.0 / 2.5Gbps
- Fully compliant with PCI-Express Base Specification Rev. 2.0
- Top serial transmission performance up to 921.6 Kbps baud rate
- FIFO 256 Bytes, 15 KV ESD protections on board
- H/W, S/W automate flow control supported
- Each port supports 5V or 12V power output by jumper setting

Overview

MEC-COM-2012 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-2012 has 2 RS-232 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-2012 is designed with flexibilities for many different applications. The power output can be configured by jmper. The accessories (bracket, connection / power input 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: 2 (DB9 male)

Serial Line Protection

ESD Protection: 15 KV on board

Serial Port Power

Voltage Select: 5V or 12V

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

Flow Control: RTS/CTS, XON/XOFF

Serial Signals

RS-232: TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND, RI

Driver Support

Operating Systems: Win 7, Win 8, Win 10

Power Requirement

Power Consumption: 78mA@3.3V

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°C ~ 85°C
Storage Temperature: -40°C ~ 95°C
Humidity: 5% ~ 95%

Regulatory Approvals

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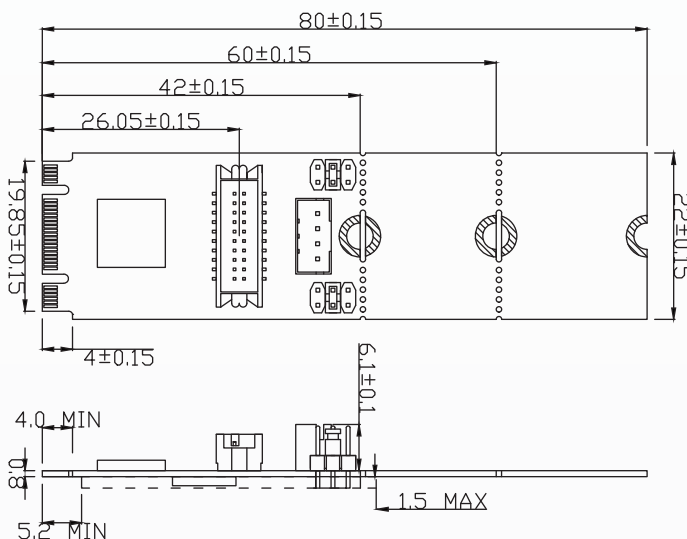**EMI:** EN 55022, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B
Class B
EMS: EN 55035, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Reliability

Warranty: 3 years

Dimensions

Unit: mm

Package Checklist

- M.2 Card x 1
- Bracket x 1
- 20Pin Internal Cable w/ two DB9 Male Connectors (30cm) x 1
- 4Pin Power Input Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1

Ordering Information

Available Models

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