

MEC-COM-M012

Mini PCI-e 2-port RS-232 serial board with power input



- PCI Express x 1 compliant
- Top serial transmission performance up to 921.6 Kbps baud rate
- FIFO 128 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-M012 is a serial communication card for embedded PC. The card follows the Mini PCI-e standard which is compliant with PCI Express x 1 classification and small form factor (30.00 x 50.95 mm). This board fits in any host computer that has Mini PCI-e card slots.

Top Performance

MEC-COM-M012 has 2 RS-232 serial ports, each individual port supports 921.6 Kbps baud rate. The combination features 15KV ESD protection, FIFO 128 Bytes, HW/SW automated flow control and extended operating temperature which enhances the board's reliability and performance.

High Usability

MEC-COM-M012 is designed with flexibilities for many different applications. The power output can be configured by jumper. The accessories (bracket, connection / power input cable) are included in the standard package.

Specifications

Hardware

Controllers: OXPcie952 (16C550C compatible)

Bus: PCI Express X1

Interface (Connector)

RS-232: 2 (DB9 male)

Serial Line Protection

ESD Protection: 15 KV on board

Serial Port Power

Voltage Select: 5V or 12V

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 • Odd Parity bit
 • Even 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

Driver Support

Operating Systems: Win 2003, Win XP, Win Vista, Win 7

Power Requirement

Power Consumption: 115mA@3.3V

Dimensions

Width x Length (mm): 30.00 x 50.95

Environmental Limits

Operating Temperature: -20°C ~ 70°C

Storage Temperature: -20°C ~ 85°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 55024, 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

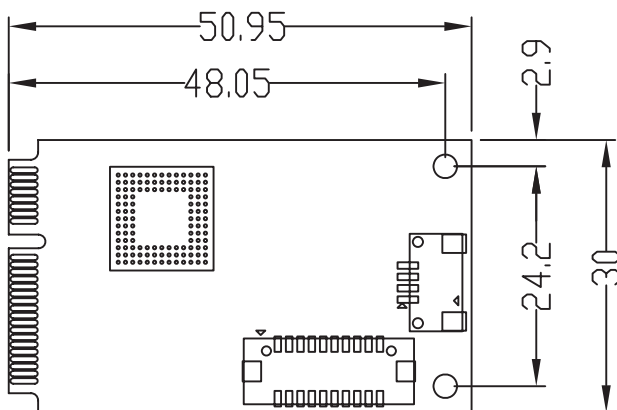
Reliability

MTBF: 2,016,738 hr

Warranty: 3 years

Dimensions

Unit: mm



Ordering Information

Available Models

MEC-COM-M012

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Package Checklist

- Mini PCI-e 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
- Driver CD x 1

