

MEC-COM-M042

Mini PCI-e 1-port parallel & 1-port RS-232 serial board with power input



- Single-Lane (x1) PCI-Express with throughput up to 2.5Gbps
- Fully compliant with PCI-Express Base Specification Rev. 1.1
- Top serial transmission performance up to 921.6 Kbps baud rate
- IEEE 1284-compliant SPP/EPP/ECP parallel port
- FIFO 128 Bytes, 15 KV ESD protections on board
- H/W, S/W automate flow control supported
- Serial port supports 5V or 12V power output by jumper setting



Overview

MEC-COM-M042 is a serial communication card for embedded PC. The card follows the Mini PCI-e standard which is complaint 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-M042 has 1 RS-232 serial port and 1 parallel port. The serial transmission performance is up to 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-M042 is designed with flexibilities for many different applications. The power output for serial port can be configured by jumper. The accessories (bracket, connection / power input cable) are included in the standard package.

Specifications

General

PCI-Express Revision:

PCI-Express Base Specification Rev 1.1

PCI-Express Electromechanical Revision:

PCI-Express Mini Card Electromechanical Rev. 1.1

Hardware

Controllers: OXPCIe952 (16C550C compatible)

Bus: Single-Lane (x1) PCI-Express with throughput up to 2.5Gbps

Interface (Connector)

RS-232: 1 (DB9 male)

LPT: 1 (DB25 male)

Serial Line Protection

ESD Protection: 15 KV on board

Serial Port Power

Voltage Select: 5V or 12V

Parallel Interface

Parallel Standards: IEEE1284 compliant
SPP / EPP / ECP

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

Parallel Signals

SPP / EPP / ECP: STROBE, DATA0~DATA7, ACK, BUSY, PE, SEL, AUTO, ERROR, INIT, SELIN, GND

Driver Support

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

Power Requirement

Power Consumption: 85mA@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

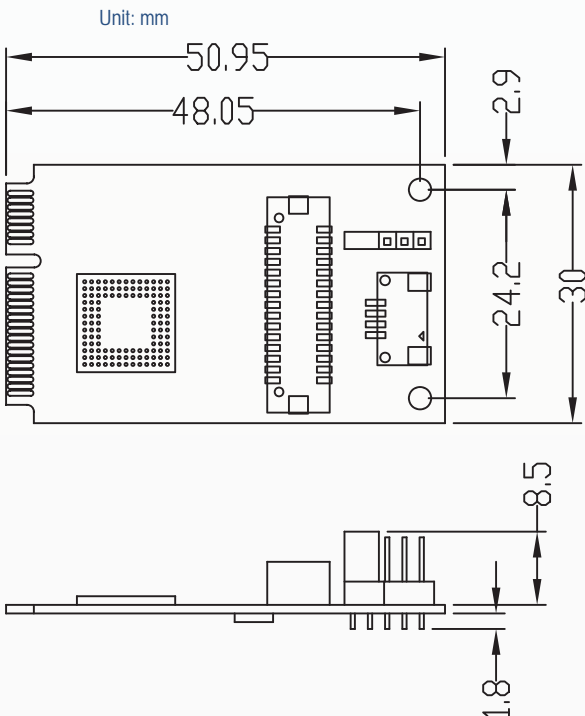
EMS: En 55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Reliability

MTBF: 1,224,994 hr

Warranty: 3 years

Dimensions



Ordering Information

Available Models

MEC-COM-M042

Mini PCI-e 1-port parallel & 1-port RS-232 serial board with power input

Package Checklist

- Mini PCI-e Card x 1
- Bracket x 1
- 20Pin Internal Cable (30cm) x 1
- 4Pin Internal Power Input Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1
- Driver CD x 1

