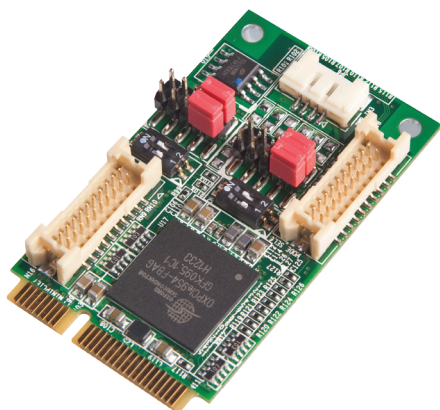# MEC-COM-M154

Mini PCI-e 2-port RS-232 and 2-port RS232/422/485 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
- RS-232/422/485 mode selectable by DIP switches setting
- Each port supports 5V or 12V power output by jumper setting

Overview

MEC-COM-M154 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-M154 has 2x RS-232 and 2x RS-232/422/485 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-M154 is designed with flexibilities for many different applications. The Serial RS-232/422/485 mode can be configured by DIP switches, the power output can be configured by jumper. The accessories (bracket, connection / power input cable) are included in the standard package.

Specifications

Hardware
Controllers: OXPCIe954 (16C550C compatible)
Bus: PCI Express X1

Interface (Connector)
RS-232: 2 (DB9 male)
RS-232 / 422 / 485: 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: 424mA@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,
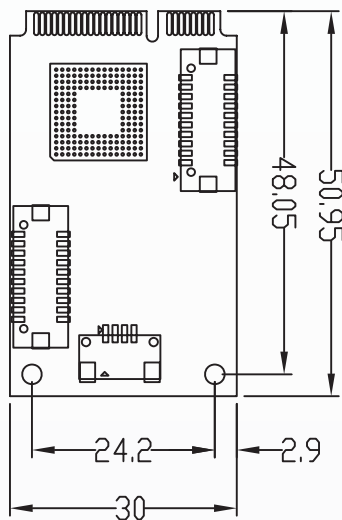IEC 61000-4-8, IEC 61000-4-11

Reliability
MTBF: 1,712,123 hr
Warranty: 3 years

Dimensions

Unit: mm

Package Checklist

- Mini PCI-e Card x 1
- Bracket x 2
- 20Pin Internal Cable w/ two DB9 Male Connectors (30cm) x 2
- 4Pin Power Input Cable (30cm) x 1
- Quick Installation Guide (Printed) x 1
- Driver CD x 1

Ordering Information

Available Models

MEC-COM-M154 Mini PCI-e 2-port RS-232 and 2-port RS232/422/485 serial board with power input