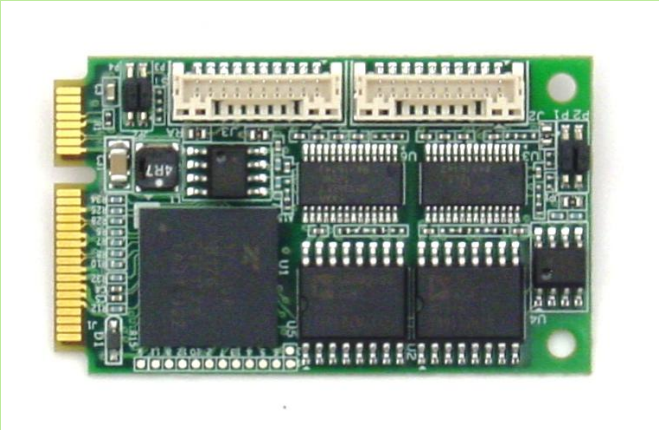
DS-MPE-SER4OPT

PCIe MiniCard I/O Expansion Module with 4 Opto-Isolated Serial Ports



- 4 opto-isolated RS-232/485 serial ports
- Available with 4 RS-232 ports, 2 RS-232 & 2 RS-485 ports, or 4 RS-485 ports
- Maximum baud rate: 1Mbps RS-232 mode
10Mbps RS-485 mode
- 256-byte TX/RX FIFO
- SP336 multi-mode transceivers support all modes
- +/-500V input/output isolation
- +3.3VDC input power
- Latching connectors for increased ruggedness
- Support for Windows 7, XP, Vista, 2000 and Linux 2.6.xx
- PCIe MiniCard full size form factor (50.95 x 30mm)
- Operating temperature of -40°C to +85°C

Description

The DS-MPE-SER4OPT is a rugged, low cost 4-port opto-isolated PCIe MiniCard serial module that is ideal for serial I/O expansion in embedded and OEM applications.

It offers four RS-232/485 serial ports in the PCIe MiniCard full size form factor with an extended operating temperature of -40°C to +85°C. Data rates on every port are up to 1Mbps in RS-232 mode, and 10Mbps in RS-485 mode. Models can be ordered with 4 RS-232 ports, 4 RS-485 ports, or 2 RS-232 and 2 RS-485 ports.

The DS-MPE-SER4OPT product comes with the 4-port PCIe MiniCard opto-isolated serial module, the CK-SER4M cable kit, and a hardware kit with jumpers and screws.

Rugged Design

Extended temperature capability (-40°C to +85°C) enables the board to operate in environments with extreme temperature swings, such as vehicles or outdoor installations.

In addition, the board may be custom-configured with 0-ohm resistors in place of jumpers for increased ruggedness in high-vibration environments.

Specifications

Number of serial ports	4
Protocols	RS-232/485 configured in pairs
Maximum baud rate	RS-232: 1Mbps RS-485: 10Mbps
Termination	RS-485 jumper selectable
UARTs	Quad XR17V354 with PCIe interface
FIFO	256-byte TX/RX
Transceiver	SP336 multi-mode
ESD protection	+/-500V input/output isolation
Power input	+3.3VDC ±5%
Power consumption	0.462W @ 3.3V
Software drivers	Windows 7, XP, Vista, 2000 Linux 2.6.12, 2.6.27, 2.6.31, 2.6.32
Operating temperature	-40°C to +85°C
Operating humidity	5% to 95% non-condensing
Form Factor	PCIe MiniCard full size
Dimensions	50.95mm x 30mm (2" x 1.18")
Weight	8.5g (0.3oz)
RoHS	Compliant

Ordering Information

DS-MPE-OPT4232	4-port RS-232 PCIe MiniCard Opto-Isolated Serial Module
DS-MPE-OPT4485	4-port RS-485 PCIe MiniCard Opto-Isolated Serial Module
DS-MPE-OPT4M22	2-port RS-232, 2-port RS-485 PCIe MiniCard Opto-Isolated Serial Module
CK-SER4M	Cable Kit with two dual port serial cables