DS-MPE-SER4M 4-Port High Speed Serial Port PCIe MiniCard Module







FEATURES

4 high speed RS-232/422/485 serial ports

Maximum baud rate: 1Mbps RS-232 mode 10Mbps RS-422/485 modes

Protocols software or jumper selectable

256-byte TX/RX FIFO

SP336 multi-mode transceivers support all modes

+/-15KV ESD protection on all ports

Latching connectors for increased ruggedness

+3.3VDC input power

Support for Windows XP and Linux 2.6

Operating temperature -40°C to +85°C

PCIe MiniCard full size form factor (50.95 x 30mm)

Cables included



The DS-MPE-SER4M is a rugged, low cost 4-port high speed PCIe MiniCard module that is ideal for serial I/O expansion in embedded and OEM applications.

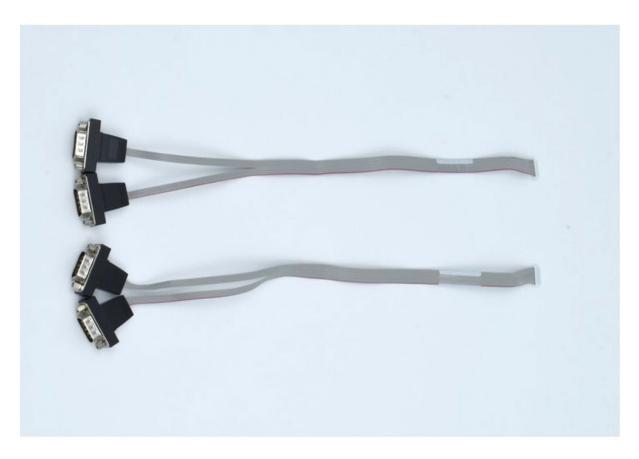
It offers four RS-232/422/485 serial ports in the PCIe MiniCard full size form factor with an extended operating temperature of -40°C to +85°C. Data rates on every port are up to 1Mbps in RS-232 mode, and 10Mbps in RS-422 and RS-485 modes. The board's protocols can be set by jumpers or programmatically selected with GPIO lines built into the UART and controlled via software. The serial I/O signals are provided on two miniature

connectors with two ports per connector.

Extended temperature capability (-40° C to $+85^{\circ}$ 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 jumper blocks for increased ruggedness in high-vibration environments.

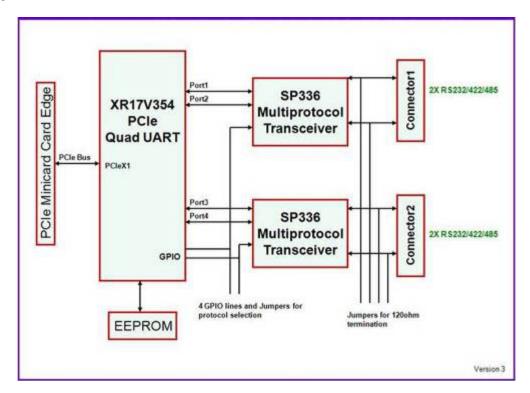
The DS-MPE-SER4M product comes with the PCIe MiniCard hardware assembly, a cable kit with two dual serial cables, and a hardware kit containing jumpers and mounting screws.

♦ CK-SER4M: Cable kit for DS-MPE-SER4M Quad Serial MiniCard



CK-SER4M includes the following cables:

No.	Qty	Cable	Description	Drawing			
1	2	6980500	Cable 1.25mm to 2x DB9M Serial	Show			
Block Diagram							
Block Diagram							



Specifications

Number of serial ports	4
Protocols	RS-232/422/485 on each port jumper or software configured
Maximum baud rate	RS-232: 1Mbps RS-422/485: 10Mbps
UARTs	16550 compatible
FIFO	256-byte TX/RX
ESD protection	+/-15KV
Input power	+3.3VDC +/-5%
Power consumption	0.462W @ 3.3V
Software drivers	Windows XP Linux 2.6.16, 2.6.27, 2.6.31, 2.6.32
Form Factor	PCIe MiniCard full size
Dimensions	50.95 x 30mm (2 x 1.18")
Operating temperature	-40°C to +85°C
Operating humidity	5% to 95% noncondensing
MTBF	tbd
Weight	8.5g (0.3oz)
RoHS	Compliant



Models and Accessories

DS-MPE-SER4M available models: DS-MPE-SER4M 4-Port High Speed Serial PCle MiniCard Module Available Please login or signup for an online quote request.

Cables and accessories				
	available models:			
CK-SER4M	CK-SER4M cable kit			
6980500	Cable 1.25mm to 2x DB9M Serial			

Please login or signup for an online quote request.

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