

## **Low Cost 4-Port High Speed PCIe MiniCard** ***Ideal for Rugged Add-on Serial Ports for Embedded Applications***

### **Nuremberg, Germany – February 27, 2013**

Diamond Systems, a leading global supplier of compact, rugged, embedded computing solutions for real-world applications in a broad range of markets, announces its entry into the growing PCIe MiniCard expansion module market. 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.



The DS-MPE-SER4M offers 4 RS-232/422/485 serial ports in a PCIe MiniCard 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 serial protocols are selected via software controlled GPIO lines built into the UART or on-board jumpers. I/O signals are provided on two miniature connectors with 2 ports per connector.

The DS-MPE-SER4M's key features and functions are tabulated below.

#### **Key Features and Functions**

- Quad high speed RS-232/422/485 ports
- Maximum baud rate: 1Mbps RS-232 mode, 10Mbps RS422/485 modes
- Protocols software or jumper selectable
- 256-byte TX/RX FIFO
- SP336 multi-mode transceivers support all modes
- Programmable slew rate minimizes ringing on long or un-terminated cables
- +/-15KV ESD protection on all ports
- +3.3VDC input power
- Support for Windows XP and Linux 2.6.xx
- Rugged design: -40°C to +85°C operating temperature
- PCIe MiniCard form-factor: (50.95 x 30mm / 2 x 1.18 in.)

The DS-MPE-SER4M serial port PCIe MiniCard is a significant product introduction for Diamond Systems. Because PCIe MiniCard is becoming pervasive due to its small size and low cost, it makes sense for Diamond, an I/O-focused company, to offer products in this form factor. This 4-port serial module is the first in what we plan as a series of high quality, cost competitive PCIe MiniCard I/O modules from Diamond.

#### **Pricing and Availability**

The DS-MPE-SER4M 4-port high speed serial PCIe MiniCard module is shipping in Q2 2013. Single unit pricing starts at US\$99. Contact Diamond Systems for quantity pricing and special-order options.

## About Diamond Systems

Founded in 1989 and based in Mountain View, California, Diamond Systems Corporation is a leading global provider of compact, rugged, board- and system-level real world embedded computing solutions to companies in a broad range of markets, including transportation, energy, aerospace, defense, manufacturing, medical, and research. The company is renowned as an innovator of embedded I/O standards and technologies; it originated the FeaturePak I/O modules standard, was an early adopter of PC/104 module technology, and holds a patent for a unique analog I/O autocalibration technique.

Diamond's extensive product line includes compact, highly integrated single-board computers (SBCs); an extensive line of expansion modules for analog and digital I/O, wired and wireless communications, GPS, solid-state disk, and power supply functions; and complete system-level solutions. In support of performance-critical embedded application requirements, these products are engineered to operate reliably over wide operating temperature ranges, such as  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , and at high levels of shock and vibration. Additionally, the company offers a comprehensive hardware, software, and system integration and customization services.

For further information, please visit [www.diamondsystems.com](http://www.diamondsystems.com) or call +1-800-367-2104.

### MEDIA RESOURCES

- [DS-MPE-SER4M webpage](#)
- [DS-MPE-SER4M datasheet](#) (pdf)
- [DS-MPE-SER4M photo](#) (jpg)

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