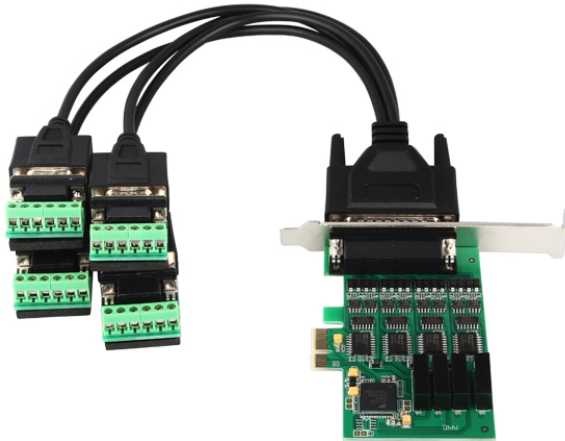




# PCI-Express 4-port (RS-422/485, DB-9) Serial Card

## ER1029



Express your System!



### Product Highlights:

- This High-Performance card adds **four RS422/485 Serial Ports** to your PC intended to be use with serial networking/monitoring equipment, data acquisition system, POS industrial terminal PC, add on I/O cards-serial/USB, and embedded systems for I/O expansions.
- RS485 signals: DATA+ (B), DATA- (A), GND.
- RS422 signal: T/R+, T/R-, RXD+, RXD-, GND.
- Each serial port can be configured individually to any interface type.
- 600W surge protection, 15 KV ESD protection for all serial ports.
- Working mode: asynchronous working point-to-point or point-to-multipoint 2 wires (half duplex) 4 wires (full duplex).
- Transmission distance: RS-485/422 port:1.2km (300bps-921600bps).
- Sleep mode with wake-up Indicator.
- Transmission media: twisted-pair cable or shielded cable.



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- Direction control: Adopt the technology which automatically controls the data-flow direction automatically distinguish and control the data-transmission direction.
- UART interface support for 7 or 8 data bits, 1 or 2 stop bits and even/odd/mark/space/none.
- Flow control none, hardware and xon/xoff.
- Load capability; Support point-to-multipoint transmission. Each converter can connect 32 RS-422 or RS-485 interface equipment.

### **Applications**

- Next generation Point-of-Sale Systems
- Remote Access Servers
- Storage Network Management
- Factory Automation and Process Control
- *Retail Point of Sale*: Cash registers, receipt printers, bar code scanners, etc. need to be connected to back office servers.
- *Medical*: Connect bed-side health monitors in hospitals to central nurse stations.
- *Transportation*: Connect Automatic Vehicle Identification (AVI) Equipment, Radar, Infrared Vehicle Scanners, Receipt printers and message signs in Toll Collection Systems.
- *Manufacturing*: Access serial devices for factory, industrial and warehouse automation.
- *Kiosks*: Connect internal modems, touch screens, receipt printers, keyboards, etc inside coin counting machines, gas station pay stations and airport check-ins.
- *Education*: Access control (door entry) systems with 100's card and/or badge readers, monitor computer room usage.
- Connect modem pools for remote access dial-in/dial-out.



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### Technical Specifications:

|                                    |   |
|------------------------------------|---|
| <b>Brand</b>                       | <b>EiRA</b>   |
| <b>SKU Code</b>                    | ER1029  |
| <b>Product model</b>               | PCI-Express 4-port (RS-422/485, DB-9) Serial Controller Card                                  |
| <b>Chipset</b>                     | XR17V354 chipset  |
| <b>Form Factor</b>                 | Plug-in Card with Small Form Factor Support   |
| <b>Small/Low Profile Bracket</b>   | Provided  |
| <b>PCIe Specification Revision</b> | PCIe 2.0 Gen 1 compliant  |
| <b>Input Bus Interface</b>         | Supports x1, x2, x4, x8, x16  |
| <b>Output Interface</b>            | <b>4 x RS422/485 Serial Ports</b>   |
| <b>Data Transfer Rate</b>          | 2.5Gbps in each direction   |
| <b>Operating Temperature</b>       | -40 to 85°C   |
| <b>Dimensions</b>                  | 98 x 65 x 18 mm   |
| <b>Weight</b>                      | 110 g   |
| <b>System supported</b>            | Windows 10, 8.1, 8, 7, Vista, XP, 2000, NT 4.0, Server 2003<br>Linux kernel 2.6 or later, DOS |
| <b>Warranty*</b>                   | 1 year  |