

BlueStorm/Express Opto






Serial Communications

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Features

- PCI Express x1 Lane serial card
- Four ports individually optically isolated
- 3kV optical isolation on all ports
- Switchable RS-232/422/485
- Supports full duplex (4 wire) with RTS/CTS flow control, half duplex (2 wire) with auto TxD echo cancellation and multi-drop (4 wire) modes in RS-422/485
- Bi-directional data speeds up to 1.843 Mbps (RS-422/485)
- Selectable for tri-state on power up in RS-422/485 mode
- Operating temperature range of 0°C to 70°C
- RoHS compliant

Specifications

| | |
|-------------------------------|--|
| Number of Ports | 4 ports |
| Electrical Interface | Hardware selectable RS-232/422/485 |
| Connectors | RJ-45 to DB-9 cables |
| Control Signals | RS-232: TxD, RxD, RTS, CTS RS-422/485: TxD+/-, RxD+/-, RTS+/-, CTS+/- |
| Baud Rate | RS-232: 50 bps to 921.6 Kbps RS-422/485: 50 bps to 1.8432 Mbps |
| Interrupts | Assigned by Plug and Play resources |
| Memory Addresses | Assigned by Plug and Play resources |
| UART Type | Dual UARTs with up to 64 byte transmit and receive FIFO buffers for each port |
| Dimensions | Length: 14.699 cm/5.775" Height: 11.049 cm/4.350" |
| Environmental | Operating Temperature: 0° C to 70° C (32° F to 158° F) Storage Temperature: -40° C to 105° C (-40° F to 221° F) Humidity: 5 to 95% non-condensing |
| Bus | PCI Express |
| Software Compatibility | Windows 2000/CE/XP/XP x64/XPe/Server 2003/ Server 2003 x64/Vista, QNX 4.X/6.X and Linux  |
| Optical Isolation | 3kV optical isolation |
| System Requirements | Any available PCI Express slot |
| Power Requirements | 200 mA @ 3.3V, 180 mA @ 12V |
| Regulatory Approvals | FCC Class A   EN50082-2 ICES-003 Class A   EN 55022 Class A EN 55024 |



An extension to the BlueStorm/Express product family, the BlueStorm/Express Opto offers dependability and high speed data transfer rates along with 3kV optical isolation. This protection makes PCI Express Opto cards ideal in environments where harsh conditions may disrupt communications.

Available with four ports of RS-232/422/485 connectivity, these BlueStorm/Express Opto x1 lane cards are compatible with x1, x4, x8, x16 lane PCI Express slots.

Bi-directional data speeds up to 1.8432 Mbps (RS-422/485) ensure fast data acquisition and communications. Experience more responsiveness while reducing the load on your network.

All BlueStorm/Express Opto products are FCC certified and CE marked. Lifetime Warranty and free technical support is also included.



Connect Tech Inc.
Industrial Strength Communications

42 Arrow Road
Guelph, ON, Canada
N1K 1S6
www.connecttech.com

Phone: 1-519-836-1291
Toll free (in North America): 1-800-426-8979
Fax: 1-519-836-4878
Email: sales@connecttech.com