

BlueStorm/Express Opto (1kV)

Serial Communications



BlueStorm/Express Opto (1kV)

Features

- PCI Express x1 lane serial card
- Four ports individually optically isolated, four non-isolated ports
- 1 kV optical isolation
- 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 1.8432 Mbps (RS-422/485)
- Selectable for tri-state on power up in RS-422/485 mode
- Built-in CTS/RX biasing and termination
- Operating temperature range of 0°C to 70°C
- Built for installation in a standard height chassis
- RoHS compliant



Specifications

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| Number of Ports | 8 ports |
| Electrical Interface | Hardware selectable RS-232/422/485 |
| Connectors | DB-9 or DB-25 cables |
| Control Signals | Isolated ports: RS-232: TxD, RxD, RTS, CTS RS-422/485: TxD _{+/-} , RxD _{+/-} , RTS _{+/-} , CTS _{+/-} Non-isolated ports: RS-232: TxD, RxD, RTS, CTS, RI, DTR, DSR, DCD 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 | Eight UART channels with up to 64 byte transmit and receive FIFO buffers for each port - programmable trigger levels |
| Dimensions | Length: 14.702 cm/5.788" Height: 10.605 cm/4.175" |
| Environmental | Operating Temperature: 0° C to 70° C (32° F to 158° F) Storage Temperature: -55° C to 105° C (-40° F to 221° F) Humidity: 5 to 95% non-condensing |
| Bus | PCI Express |
| Software Compatibility | Windows 2000/XP/XP x64/XPe/Server 2003/Server 2003 x64/CE/Vista, QNX 4.X/6.X, Linux  |
| Optical Isolation | 1kV optical isolation on 4 of 8 ports |
| System Requirements | Any available PCI Express slot |
| Power Requirements | 3.3V @ 525mA max., 240mA min., 12V @ 625mA max., 140mA min. |
| Regulatory Approvals | FCC Class A  ICES-003 Class A |

The BlueStorm/Express Opto (1 kV) card demonstrates Connect Tech's commitment to customer satisfaction as it provides a perfect example of a board that was developed to support specific customer requirements. Designed to significantly protect data communications within budgetary restraints, BlueStorm/Express Opto (1 kV) offers multi-strike surge suppression on four ports of eight ports and the added protection of optical isolation on the remaining four ports.

Bi-directional data speeds up to 1.8432 Mbps (RS-422/485) ensure fast data acquisition and communications. Superior protection combined with high speed data transfer rates ensure these cards can be depended on for your mission critical applications.

All BlueStorm/Express Opto (1 kV) products are FCC certified and CE marked. Lifetime warranty and free technical support is also included.



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