

BlueStorm/Express Opto (1kV)

Serial Communications

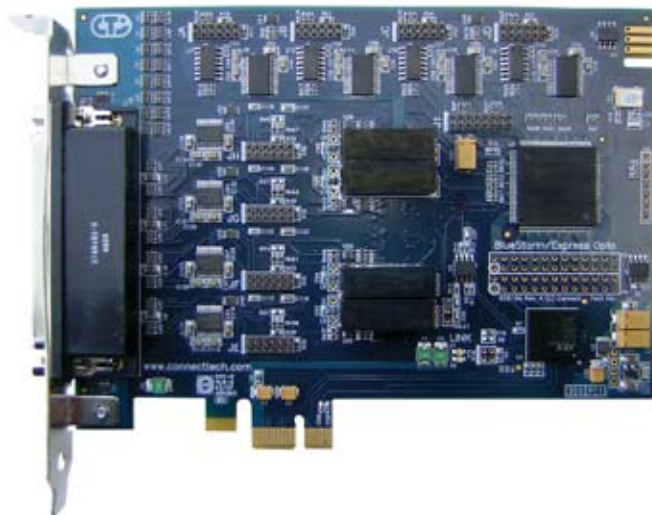
BlueStorm/Express Opto (1kV)

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

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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