

# BlueStorm/SP Opto

Serial Communications



## BlueStorm/SP Opto

### Features

- 32-bit Universal PCI
- Four ports individually optically isolated
- 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
- 3kV optical isolation
- Operating temperature range of 0°C to 70°C
- Built for installation in a standard height chassis
- RoHS compliant



### Specifications

<b>Number of Ports</b>	4 ports
<b>Electrical Interface</b>	Hardware selectable RS-232/422/485
<b>Connectors</b>	RJ-45 to DB-9 cables
<b>Control Signals</b>	RS-232: TxD, RxD, RTS, CTS, SG (Signal Ground) RS-422/485: TxD <sub>+/-</sub> , RxD <sub>+/-</sub> , RTS <sub>+/-</sub> , CTS <sub>+/-</sub> , SR (Signal Return)
<b>Baud Rate</b>	RS-232: 50 bps to 921.6 Kbps RS-422/485: 50 bps to 1.8432 Mbps
<b>Interrupts</b>	Assigned by Plug and Play resources
<b>Memory Addresses</b>	Assigned by Plug and Play resources
<b>UART Type</b>	Dual UARTs with up to 64 byte transmit and receive FIFO buffers for each port
<b>Dimensions</b>	Length: 14.702 cm/5.788" Height: 10.605 cm/4.175"
<b>Environmental</b>	Operating Temperature: 0° C to 70° C (32° F to 158° F) Storage Temperature: -55° C to 105° C (-67° F to 221° F) Humidity: 5 to 95% non-condensing
<b>Bus</b>	32-bit Universal PCI
<b>Software Compatibility</b>	Windows 2000/CE/XP/XP x64/XPe/Server 2003/ Server 2003 x64/Vista, QNX 4.X/6.X and Linux 
<b>Optical Isolation</b>	3kV optical isolation
<b>System Requirements</b>	3.3V or 5V
<b>Regulatory Approvals</b>	FCC Class A  EN50082-2 ICES-003 Class A EN 55022 Class A EN 55024

The BlueStorm/SP Opto offers the added protection of optical isolation for your critical applications. The BlueStorm/SP Opto is an extension of the BlueStorm product family and available as a standard profile card only.

Dependability, high speed data transfer rates and 3kV of optical isolation protection makes these cards ideal in environments where harsh conditions may disrupt communications.

Available with four ports of RS-232/422/485 connectivity, these BlueStorm/SP Opto cards are compatible with 3.3V and 5V PCI slots.

Bi-directional data speeds up to 1.8432 Mbps (RS-422/485) ensure fast data acquisition and communications.

All BlueStorm/SP 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