PCI Express

Serial Communications

BlueStorm/Express

Features
- PCI Express x1 lane serial card
- 2, 4, 8 or 16 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 921.6 Kbps (RS-232) and 1.843 Mbps (RS-422/485)
- Selectable for tri-state on power up in RS-422/485 mode
- Multi-strike surge suppression; IEC 1000-4 compatible all signals, all ports
- Operating temperature range of 0°C to 70°C
- RoHS compliant

Specifications

<table>
<thead>
<tr>
<th>Number of Ports</th>
<th>2, 4, 8 or 16 ports</th>
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<tbody>
<tr>
<td>Electrical Interface</td>
<td>Hardware selectable RS-232/422/485</td>
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<tr>
<td>Connectors</td>
<td>DB-9 cables, DB-25 cables, DB-9 external I/O box</td>
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</table>
| Control Signals | RS-232: TxD, RxD, RTS, CTS, RI, DTR, DSR, DCD (RS-232) 
RS-422/485: TxD+/TxD-, RxD+/RxD-, RTS+,CTS+, DCD |
| Baud Rate | RS-232: 50 bps to 921.6 Kbps (custom baud rates also available) 
RS-422/485: 50 bps to 1.843 Mbps (optional) |
| Interrupts | Assigned by Plug and Play resources |
| Memory Addresses | Assigned by Plug and Play resources |
| UART Type | Dual UARTs with up to 64 bytes transmit and receive FIFO buffers for each port |
| Dimensions | (2 and 4 port models) Length: 10.86 cm/4.275” Height: 10.92 cm/4.300” |
| Environmental | 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 |
| Bus | PCI Express |
| Surge Suppression | IEC 1000-4 compatible on all signals, all ports (optional) |
| System Requirements | One PCI Express x1 card edge |
| Power Requirements | +3.3V DC @ 400mA (typical) |
| Regulatory Approvals | FCC Class A, CE, ICES-003 Class A, EN55022 Class A, EN 55024 |

The BlueStorm/Express family offers reliable, high speed data transfer for your PCI Express system.

These x1 lane, standard profile PCI Express serial cards offer 2, 4, 8 or 16 ports of RS-232/422/485 connectivity, compatible with any PCI Express slot.

Bidirectional data speeds up to 1.843 Mbps (RS-422/485) ensure your data acquisition, office automation, POS, self-service kiosk or scientific/instrumentation applications communicate in a reliable, cost-effective manner.

The Connect Tech BlueStorm/Express cards are compatible with x1, x4, x8 and x16 lane PCI Express slots. Upgrading a PCI system to the more efficient PCI Express requires a hardware change only - your new PCI Express system is backwards compatible with your PCI software.

BlueStorm/Express is covered by a Lifetime Warranty and free technical support.

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Industrial Strength Communications

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