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# Blue Heat/PCI RS-422/485

## Applications

Blue Heat/PCI RS-422/485 adapters offer up to eight asynchronous RS-422/485 and RS-232 serial ports for data collection devices, barcode readers, time clocks, scales and other industrial automation equipment. Blue Heat/PCI RS-422/485 adapters are ideal industrial strength solutions for control and automation applications requiring single node or multi-drop communications over short or long distances using PCI bus compatible computers.

## Features

- Two, four and eight asynchronous serial ports in various electrical interface configurations
- Supports data communications speeds up to 921.6 Kbps
- 16C864 UARTs control each port providing 128 bytes of TxD/RxD FIFO buffers
- Dual mode interrupt scheme: PCI and ISA modes with status register (for software that supports this feature). Improves performance and compatibility
- Supports three RS-422/485 modes:
  - Full Duplex with RTS/CTS flow control
  - Half Duplex with auto TxD echo cancellation
  - Multi-drop Slave offers four-wire full duplex communications of multi-drop devices
- Independent port configuration with baud rates from 50 bps to 921.6 Kbps; data bits of 5, 6, 7 or 8; stop bits of 1, 1.5, or 2, and odd, even, or stick parity
- A choice of a DB-9 and DB-25 fan-out cable, DB-9 external connector box or RJ-45 module (custom connector solutions offered as well)
- Multi-strike surge suppression; IEC1000-4 compatible on all signals, all ports
- Easy installation with no DIP switches or jumpers to set - full Plug and Play

## Benefits

### *High Speed, High Performance Communications*

Achieve rapid data transfer rates up to 921.6 Kbps. State of the art 16C864 quad UARTs with 128 bytes of transmit and receive FIFO buffers offload interrupt handling and buffering from the main CPU, thus improving overall system performance.

### *Hardware Flexibility*

Blue Heat/PCI RS-422/485 offers hardware flexibility and adaptability for your application. You can configure each port's baud rate, parity, data and stop bits independently and various connector options are offered to suit your needs. Blue Heat/PCI RS-422/485 supports three RS-422/485 modes: Full Duplex with RTS/CTS flow control; Half Duplex with auto TxD echo cancellation; and Multi-drop Slave for four-wire full duplex communications of multi-drop devices. Several models with a combination of RS-232 ports are also available.

### *Hardware Reliability*

The Blue Heat/PCI RS-422/485 adapters provide IEC1000-4 compatible surge suppression on all signals, all ports. Protection against electrical disturbances, spikes and surges means fewer failures, less downtime.

### *Software Compatibility*

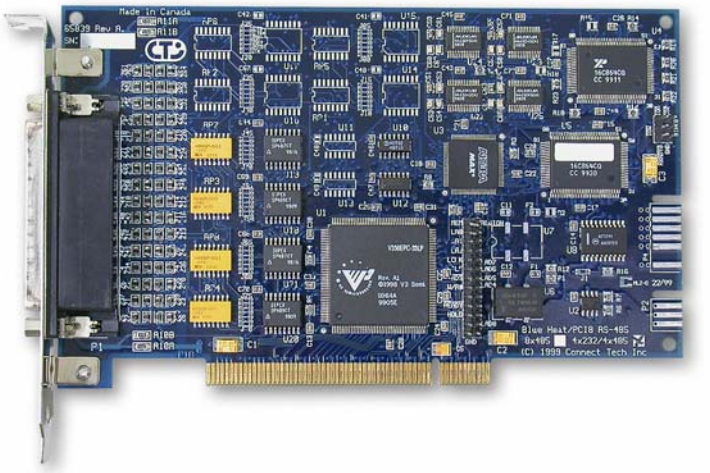
Blue Heat/PCI RS-422/485 boards with its dual mode interrupt scheme offer compatibility with existing standard serial drivers for many of the most popular operating systems such as: Linux, QNX, SCO Unix, Windows 95/98/CE/Me/XP, Windows NT/2000, Windows 2003, and Windows XP Professional x64. This provides you with more software flexibility for your communication needs.

### *Easy to Use*

To get you up and running in no time, the Blue Heat/PCI RS-422/485 adapters come ready for simple installation with no DIP switches or jumpers to set. Included are board, cable assembly, driver software and a comprehensive manual.

### *Warranty and Service*

Connect Tech, an ISO 9001 registered company, has provided high performance communication solutions since 1985, building and testing products to meet high standards of quality and reliability. Blue Heat/PCI RS-422/485 adapters are covered by our excellent no cost customer support and a lifetime warranty.



## Specifications

| | Blue Heat/PCI RS-422/485 | |
|---|---|---|
| Number of ports | 2, 4, 8 | |
| Electrical Interface | *8 port models:* 8 ports RS-422/485<br>6 ports RS-232 & 2 ports RS-422/485<br>4 ports RS-232 & 4 ports RS-422/485<br>*4 port models:* 4 ports RS-422/485<br>2 ports RS-232 & 2 ports RS-422/485<br>*2 port model:* 2 ports RS-422/485 | |
| Connectors | *4 & 8 port models:* DB-9 or DB-25 fan-out cable<br>*8 port models*: DB-9 external connector box<br>RJ-45 module<br>*2 port model:* DB-9 male connectors<br>(custom connector solutions also offered) | |
| Control Signals | *RS-232*: DTR, DSR, RTS, CTS, RI, TxD, RxD, DCD<br>*RS-422/485*: TxD ±, RxD ±, CTS ±, RTS ± | |
| Baud Rates | 50 bps - 921.6 Kbps | |
| I/O Addresses | Plug and Play resources require two 256 byte I/O spaces | |
| Interrupts | Plug and Play resources require one interrupt | |
| Memory Addresses | Plug and Play resources require a megabyte of memory address space | |
| UART Type | 16C864 quad UARTs with 128 byte TxD/RxD FIFO buffers | |
| Surge Suppression | IEC1000-4 compatible on all signals, all ports | |
| Dimensions | *8 port models:*<br>Height: 10.50 cm/4.13 in.<br>Length: 17.30 cm/6.81 in.<br>Width: 1.50 cm/0.59 in. | *2 & 4 port models:*<br>Height: 10.50 cm/4.13 in.<br>Length: 12.00 cm/4.72 in.<br>Width: 1.50 cm/0.59 in. |
| Power Requirements | +5V | |
| Environmental Requirements | Temperature: (operating) 0° to 70° C<br>(storage): -65° to 150° C<br>Humidity: 5 - 95% non-condensing | |
| Bus | 32 bit 33 MHz PCI | |
| Regulatory Approvals | FCC Class A<br>ICES-003 Class A<br>EN50082-1<br>EN55022 Class A<br>EN55024 | |
| Software Compatibility | Linux, QNX, SCO Unix, Solaris, Windows 95/98/CE/Me/XP, Windows NT/2000, Windows 2003, Windows XP Professional x64 (contact Connect Tech for most current list) | |
| System Requirements | One available 32 bit PCI slot | |

***Please call for more information about our industrial strength communication products***

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