

Blue Heat /PCI 485

Applications

Blue Heat/PCI 485 adapters offer up to eight asynchronous RS-485/422 and RS-232 serial ports for data collection devices, barcode readers, time clocks, scales and other industrial automation equipment. Blue Heat/PCI 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

- 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-485 modes:
 - Full Duplex with RTS/CTS flow control.
 - Half Duplex with auto TxD echo cancellation.
 - Multi-drop Slave offers 4 wire full duplex communications of multi-drop devices.
- Independent port configuration with baud rates from 14 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 DB9 and DB25 cable harness connector or DB9 external connector box or RJ45 module (custom connector solutions offered as well).
- Multi-strike surge protection; IEC1000-4 compatible on all signals, all ports.
- Includes SeePORT, a Windows 95/98 full-featured software data analyzer.
- 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 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 485 supports three RS-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 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 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 and Windows 95/98/NT/2000. This provides you with more software flexibility for your communication needs.

Easy to Use

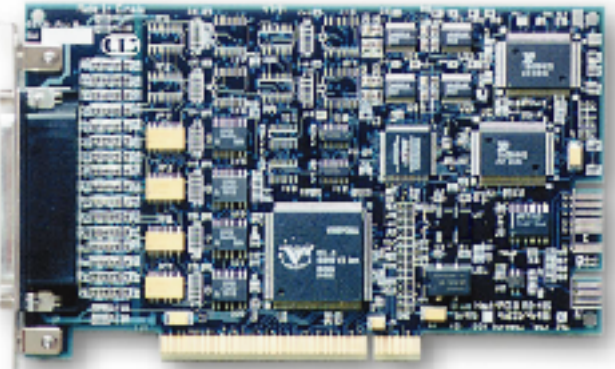
To get you up and running in no time, the Blue Heat/PCI 485 adapters come ready for simple installation with no DIP switches or jumpers to set. Included are board, cable assembly, driver software and a comprehensive manual.

Diagnostic Tools

Blue Heat/PCI 485 adapters include the Windows 95/98 software data line analyzer, SeePORT to help you diagnose communication problems and therefore minimize downtime.

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 485 adapters come with a one year warranty.



Specifications

	Blue Heat/PCI 485	
Number of ports	<i>Blue Heat/PC18/PC16+2/PC12+6/PC14+4 485:</i> 8 <i>Blue Heat/PC14/PC12+2 485:</i> 4 <i>Blue Heat/PC12 485:</i> 2	
Electrical Interface	<i>Blue Heat/PC18 485:</i> 8 ports RS-485/422 <i>Blue Heat/PC16+2 485:</i> 6 ports RS-232 2 ports RS-485/422 <i>Blue Heat/PC12+6 485:</i> 6 ports RS-485/422 2 ports RS-232 <i>Blue Heat/PC14+4 485:</i> 4 ports RS-232 4 ports RS-485/422 <i>Blue Heat/PC14 485:</i> 4 ports RS-485/422 <i>Blue Heat/PC12+2 485:</i> 2 ports RS-232 2 ports RS-485/422 <i>Blue Heat/PC12 485:</i> 2 ports RS-485/422	
Connectors	<i>4 & 8 port models:</i> DB9 or DB25 male cable or connector box or RJ45 module <i>2 port model:</i> DB9 male connectors (custom connector solutions offered)	
Control Signals	<i>RS-232:</i> DTR, DSR, RTS, CTS, RI, TxD, RxD, DCD <i>RS-485:</i> TxD ±, RxD ±, CTS ±, RTS ±	
Baud Rates	14 - 921.6K baud	
I/O Addresses	Plug N' Play resources require two 256 byte I/O spaces	
Interrupts	Plug N' Play resources require one interrupt	
Memory Addresses	Plug N' Play resources require a megabyte of memory address space	
UART Type	16C864 quad UARTs c/w 128 byte TxD/RxD FIFO buffers	
Surge Suppression	500 watts (8x 20 µS), IEC1000-4 compatible on all signals, all ports	
Dimensions	<i>8 port models:</i> Height: 10.50 cm Length: 17.30 cm Width: 1.50 cm	<i>2 & 4 port models:</i> Height: 10.50 cm Length: 12.00 cm Width: 1.50 cm
Power Requirements	+5V	
Environmental Requirements	Temperature: (operating) 5° to 70° C (storage): -65° to 150° C Humidity: 5 - 95% non-condensing	
Bus	33 MHz, 32 bit PCI with read and write FIFO buffers	
Regulatory Approvals	FCC Class A ICES-003; EN50082-1 EN55022 Class A	
Software Compatibility	Linux, QNX, SCO Unix and Windows 95/98/NT/2000 (contact Connect Tech for most current list)	
System Requirements	one available 32 bit PCI slot and ISA bracket assembly	
Part Numbers	Model	
	Please call Connect Tech for information about other Blue Heat/PCI 485 models	

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Quality and Reliability since 1985

