

Titan/cPCI

Applications

Titan/cPCI adapters provide two or four asynchronous RS-232 and/or RS-485/422 serial ports for data collection devices, barcode readers, time clocks, scales and other industrial automation and data communication equipment. Titan/cPCI is an ideal industrial strength solution for process control/industrial automation and data communication applications requiring single node or multi-drop communications over short or long distances using cPCI bus compatible computers.

Features

- Two or four asynchronous RS-232, and/or RS-485/422 serial ports - each port's electrical interface is jumper selectable.
- 16C950 quad UARTs with 128 bytes of Tx/D/RxD FIFO buffers control each port.
- Offers three RS-485/422 modes:
 - Full Duplex
 - Half Duplex
 - Multi-drop Slave
- Each RS-485/422 transmitter and receiver has jumper selectable 150 Ohm termination and bias resistors.
- Independent port configuration with baud rates from 50 bps to 1.8342 Mbps (RS-485/422) or from 50 bps to 230.4 Kbps (RS-232); data bits of 5, 6, 7 or 8; stop bits of 1, 1.5, or 2, and odd, even, or stick parity.
- Male DB-9 connectors or male DB-25 connectors (4 port model only) - custom cabling options are available.
- Rear I/O options are available.
- Multi-strike surge protection; IEC1000-4 compatible on all signals, all ports.
- Optional 2.5K VAC peak to peak optical isolation available (rear I/O only).
- Includes SeePORT, a full-featured software data analyzer for Windows 95/98.
- Easy installation comes with comprehensive manual, cable (four port models) and driver software.

Benefits

High Speed, High Performance Communications

Achieve rapid data transfer rates up to 1.8342 Mbps. Titan/cPCI adapters use state of the art 16C950 quad UARTS with 128 bytes of transmit and receive FIFO buffers to offload interrupt handling and buffering from the main CPU, thus improving overall system performance. The 32-bit, 33Mhz PCI bus interface offers high bandwidth for your data communications.

Hardware Flexibility

Titan/cPCI offers hardware flexibility and adaptability for your application. You can configure each port's electrical interface, baud rate, parity, data and stop bits independently and various connector options are offered to suit your needs. Titan/cPCI supports three RS-485/422 modes: Full Duplex; Half Duplex and Multi-drop Slave.

Hardware Reliability

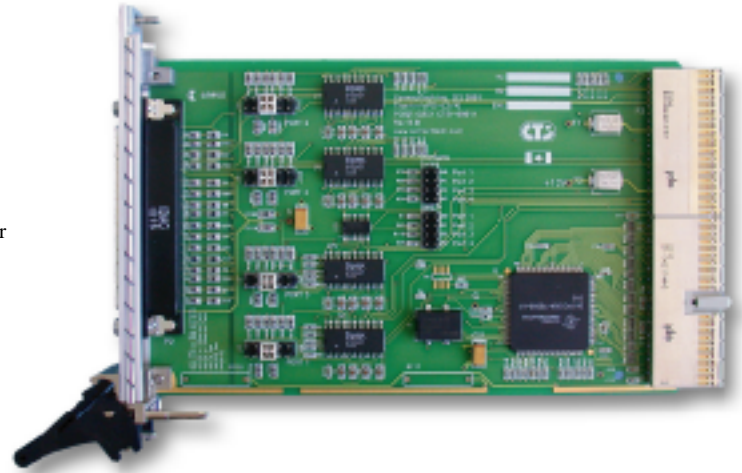
Titan/cPCI adapters provide IEC1000-4 compatible multi-strike surge suppression on all signals, all ports. Optical isolation up to 2.5K VAC peak to peak on each port is also available as an option. This makes the Titan/cPCI an excellent choice for mission critical applications that require highly reliable and rugged serial communications. Protection against electrical disturbances, spikes and surges means fewer failures, less downtime.

Software Compatibility

Titan/cPCI adapters offer compatibility with existing standard serial drivers for many of the most popular operating systems such as: QNX, Windows 95/98/Me/CE and Windows NT/2000. This provides you with more software flexibility for your communication needs.

Easy to Use

Titan/cPCI adapters come ready for simple installation with no DIP switches to set. Included are board, 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. Titan/cPCI adapters come with a one year warranty.

Specifications

	Titan-2/cPCI	Titan-4/cPCI
Number of ports	2	4
Interface	RS-232, RS-485/422	
Connectors	On board DB-9 male connectors	Cable harness with DB-37 to four DB-9 or DB-25 male connectors (custom cabling also offered)
Control Signals	RS-232: RTS, CTS, Tx/D, RxD, DCD, DTR, DSR, RI RS-485/422: RxD ±, Tx/D ±, CTS ±, RTS ±	
Baud Rates	RS-232: 50 bps – 230.4 Kbps RS-485/422: 50 bps – 1.8342 Mbps	
I/O Addresses	Assigned by Plug and Play resources	
Interrupts	Assigned by Plug and Play resources	
Memory Addresses	Assigned by Plug and Play resources	
UART Type	16C950 quad UARTs c/w 128 byte Tx/D/RxD FIFO buffers	
Dimensions	CompactPCI PICMG 2.0, version 3.0 compliant	
Power Requirements	+5 VDC +/-5% @ 300 mA (typical)	
Environmental Requirements	Temperature: (operating): 5°C to 70°C (storage): -65°C to 150°C Humidity: 95% non-condensing	
Surge Suppression	IEC1000-4 compatible multi-strike surge suppression on all signals, all ports	
Regulatory Approvals	FCC Class A EN50082-2 ICES-003 EN55022 Class A	
Bus	PCI 2.1 bus compatible.	
Compatibility	QNX, Windows 95/98/Me/CE/NT/2000 (contact Connect Tech for most current list)	
System Requirements	An available 3U CompactPCI expansion slot in your system.	
Part Numbers	Model	

Please call Connect Tech for information about other Titan/cPCI models



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