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Find the *Connect Tech Titan/cPCI* at our website: ***Click HERE***

Titan/cPCI

Applications

Titan/cPCI adapters provide two or four asynchronous RS-232 and/or RS-422/485 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-422/485 serial ports - each port's electrical interface is jumper selectable.
- 16C950 quad UARTs with 128 bytes of TxD/RxD FIFO buffers control each port.
- Offers three RS-422/485 modes:
  - Full Duplex
  - Half Duplex
  - Multi-drop Slave
- Each RS-422/485 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-422/485) 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 (four port model only) - custom cabling options are available.
- Rear I/O options are available.
- Multi-strike surge suppression; IEC1000-4 compatible on all signals, all ports.
- Optional 3.0K VAC peak to peak optical isolation available (rear I/O only).
- Easy installation comes with comprehensive manual, cable assembly (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-422/485 modes: Full Duplex, Half Duplex and Multi-drop Slave.

Hardware Reliability

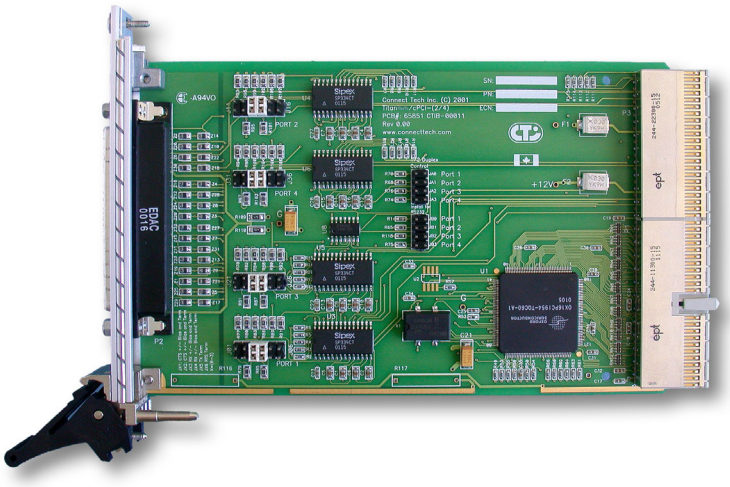
Titan/cPCI adapters provide IEC1000-4 compatible multi-strike surge suppression on all signals, all ports. Optical isolation up to 3.0K VAC peak to peak on each port is also available as an option. This makes the Titan/cPCI an excellent choice for mission critical applications that require highly reliable 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, Linux and Windows NT. This provides you with more software flexibility for your communication needs.

Easy to Use

Titan/cPCI adapters come ready for simple installation. Included are board, cable assembly (four port models), 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 are covered by our excellent no cost customer support and a lifetime warranty.

Specifications

	Titan/cPCI (2 port model)	Titan/cPCI (4 port model)
Number of ports	2	4
Interface	RS-232, RS-422/485	
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, TxD, RxD, DCD, DTR, DSR, RI *RS-422/485:* RxD ±, TxD ±, CTS ±, RTS ±	
Baud Rates	*RS-232:* 50 bps – 230.4 Kbps *RS-422/485:* 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 with 128 byte TxD/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 ICES-003	EN50082-2 EN55022 Class A
Bus	PCI 2.1 bus compatible	
Compatibility	QNX 4, QNX 6, Linux and Windows NT (contact Connect Tech for most current list)	
System Requirements	An available 3U CompactPCI expansion slot in your system	
	Please call Connect Tech for information about other Titan/cPCI models	

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