Serial Communications Products

3U CompactPCI Serial Communications Products

Model Name	cPCI-3538	cPCI-3534	cPCI-3544
Plug & Play	√	√	√
Serial Port Number	8	4	4
Max. Async Speed	115.2 kbps	115.2 kbps	115.2 kbps
Isolation	-	On-board	On-board
RS-232C # of Ports	8	3	-
RS-485 # of Ports	-	1 Isolated	4 Isolated
RS-422 # of Ports	-	1 Isolated	4 Isolated
Rear I/O Version	√	√	√
Cable	C825M / C809M	C425M / C409M	C425M / C409M
Page No.	10-4	10-4	10-5

PCI-based Serial Communications Products
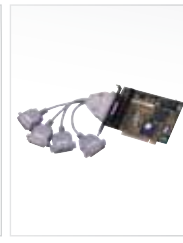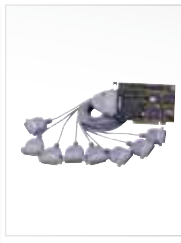
Model Name	C588	C584	C518	C514	C422	C485
Plug & Play	√	√	√	√	√	√
Serial Port Number	8	4	8	4	2	4
Max. Async Speed	115.2 kbps	115.2 kbps	115.2 kbps	115.2 kbps	115.2 kbps	115.2 kbps
Isolation	External	External	-	-	On-board	On-board
RS-232C # of Ports	8	4	7	3	-	-
RS-485 # of Ports	-	-	1 Isolated	1 Isolated	2 Isolated	4 Isolated
RS-422 # of Ports	-	-	1 Isolated	1 Isolated	2 Isolated	4 Isolated
Cable	C825M / C809M	C425M / C409M	C825MI / C809MI	C425M / C409M	-	C425M / C409M
Page No.	10-3	10-3	10-3	10-3	10-3	10-3

PCI-7841 / cPCI-7841

Dual-port Isolated CAN Interface Cards

1 Software & Utilities

2 DAQ

3 PXI

4 Modular Instruments

5 GPIB & Bus Expansion

6 PAC

7 Motion

8 Real-time Distributed I/O

9 Remote I/O

10 Communi- cations

11 Vision

12 Fanless I/O Platforms

13 cPCI & Industrial Computers

14 Accessories
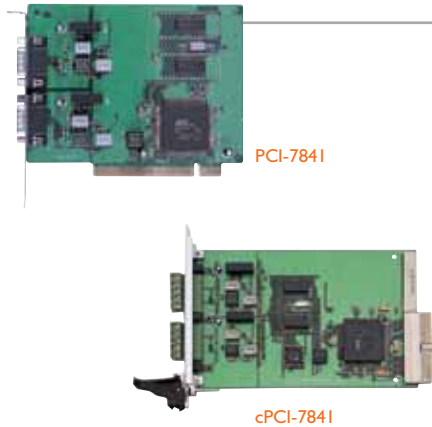
PCI-7841

cPCI-7841

Introduction

The PCI-7841/cPCI-7841 is a Controller Area Network (CAN) interface card. It supports a dual-port CAN interface that can run independently or bridged together. The built-in CAN controller is a Philips SJA1000, which provides bus arbitration and error detection with auto correction and re-transmission functionality.

Controller Area Network

The CAN (Controller Area Network), a serial bus system originally developed by Bosch for use in automobiles, is increasingly used for industry automation. Its multi-master protocol, real-time capability, error correction and high noise immunity makes it especially suited for intelligent I/O devices control network.

Features

- **Two independent CAN network operation**
- **Up to 1 Mbps programmable transfer rate**
- **16 MHz CAN controller frequency**
- **2500 VRMS isolation protection**
- **Direct memory mapping to the CAN controllers**
- **Powerful master interface for CAN bus protocols**
- **PCI bus plug-and-play**
- **Supports Windows® 2000/XP and Linux operation systems**
- **Only supports CompactPCI interface 5V V(I/O)**

Software Support

PCI-7841
- Dos driver
- Windows® NT/2000/XP
- Linux driver

cPCI-7841
- Dos driver
- Windows® NT/2000/XP
- Linux driver

Specifications

Ports 2	CAN channels (V2.0 A, B)
CAN Controller	SJA1000
CAN Transceiver	82C250/251
Isolation Voltage	2500 VRMS
Connectors	Dual DB9 male connectors for PCI-7841
	5-pin screw terminal for cPCI-7841
Operating Temperature	0 to +60˚C
Storage Temperature	-20˚C to +80˚C
Humidity	5 to 95%, non-condensing
Power Consumption	+5 V @ 400 mA typical, @ 900 mA max.
Dimensions	PCI-7841: 132 mm x 107 mm (H x L)
	cPCI-7841: 100 mm x 160 mm (H x L)

Ordering Information

PCI-7841
Dual-port isolated CAN interface card

cPCI-7841
Dual-port isolated CAN interface card in 3U CompactPCI form factor

cPCI-7841R
Dual-port isolated CAN interface card in 3U CompactPCI form factor with rear I/O support

C588/C584/C518/C514/C485/C422

PCI-based Serial Communications Cards

C588

C584

C518

C514

C485

C422

ADLINK GREEN RoHS Compliant

Features

PCI Rev 2.1 Plug-and-play

IRQ & IO address automatically assigned by BIOS

Supports up to 2 cards per system, jumper-less, easy to configure

Isolated RS-422/RS-485 interface (C422/C485, C518/C514)

Applications

Factory automation

Machine automation

Distributed monitoring & control systems

Software Support

Windows® 2000/XP/XP Embedded

Linux drivers

Specifications

Serial Communications Controller	Type: 16550A compatible
Port Capability	C588: 8 independent RS-232C ports
	C584: 4 independent RS-232C ports
	C518: 7 independent RS-232C ports, and 1 isolated RS-422/RS-485 port
	C514: 3 independent RS-232C ports, and 1 isolated RS-422/RS-485 port
	C485: 4 independent isolated RS-422/RS-485 ports
	C422: 2 independent isolated RS-422/RS-485 ports
Baud Rate	Each port can be configured to 50 to 115,200 bps
Form Factor	C588: 140 mm x 107 mm
	C584: 140 mm x 102 mm
	C518: 159 mm x 108 mm
	C514: 146 mm x 108 mm
	C485: 159 mm x 108 mm
	C422: 159 mm x 108 mm
	+5 V or +3.3 V 32-bit PCI signaling environment
PCI Interface	32-bit CompactPCI, PICMG 2.0 Rev 3.0
Working Temperature	0˚C to +55˚C
Storage Temperature	-20˚C to +65˚C
Humidity	10 % to 95 % non-condensed

Ordering Information

C588
8-port RS-232C async communications card

C584
4-port RS-232C async communications card

C518
8-port (7 RS-232C ports, 1 RS-422/RS-485 port) industrial communications card

C514
4-port (3 RS-232C ports, 1 RS-422/RS-485 port) industrial communications card

C485
4-port RS-422/RS-485 industrial communications card

C422
2-port RS-422/RS-485 industrial communications card

C809M
DB-62 to 8 DB-9 male cable

C825M
DB-62 to 8 DB-25 male cable

C409M
DB-37 to 4 DB-9 male cable

C425M
DB-37 to 4 DB-25 male cable

C825MI
DB-62 to eight DB-25 male cable for C518

C809MI
DB-62 to eight DB-9 male cable for C518

cPCI-3534/3538 Series

4/8-port Asynchronous Serial Communications Modules

1 Software & Utilities
2 DAQ
3 PXI
4 Modular Instruments
5 GPIB & Bus Expansion
6 PAC
7 Motion
8 Real-time Distributed I/O
9 Remote I/O
10 Communications
11 Vision
12 Fanless I/O Platforms
13 cPCI & Industrial Computers
14 Accessories

cPCI-3534

cPCI-3534R

cPCI-3538

cPCI-3538R

Features

32-bit CompactPCI, PICMG 2.0 Rev 2.1

Plug-and-play, IRQ & I/O address automatically assigned by PCI BIOS

4/8 asynchronized communications ports with intelligent buffer

Three RS-232 ports and one isolated RS-422/RS-485 port with 2500 VRMS isolation voltage (cPCI-3534)

Eight RS-232 ports (cPCI-3538)

Supports up to 2 cards per system

Suitable for modems, data display, data collection, telecommunications

Rear I/O version is available for cPCI-3534R and cPCI-3538R

Support multiple OS

Surge protector in TXD/RXD signal line

Rugged DB-37 connector for cPCI-3534

Rugged DB-62 connector for cPCI-3538

Applications

Factory automation

Distributed monitoring & control systems

Telecommunications

POS systems

Stock market systems

Traffic control systems

Software Support

Windows® 2000/ME/XP

Linux drivers

Specifications

Serial Communications Controller	16C550A compatible
System I/O Mapping	Assigned by PCI BIOS
	Shared IRQ
Port Capability of cPCI-3534	3 independent RS-232 ports
	1 isolated switch selectable RS-422/485 port
	RS-485 support auto-direction control
	Max. two cards per system (8-port max.)
Port Capability of cPCI-3538	8 independent RS-232 ports
	Max. two cards per system (16-port max.)
Baud Rate	Each port can be configured to 50 to 115,200 bps
Flow Control (for RS-232 only)	Xon/Xoff control
	RTS/CTS control
Isolation Voltage	2500 VRMS for RS-422/485 port of cPCI-3534
Connector	DB37 female connector for cPCI-3534
	DB62 female connector for cPCI-3538
Cable	External cable with 4 standard DB25 (C425M) / DB9 (C409M) connectors for cPCI-3534
	External cable with 8 standard DB25 (C825M) / DB9 (C809M) connectors for cPCI-3538
Operating Temperature	0˚C to +60˚C
Storage Temperature	-20˚C to +70˚C
Humidity	5% to 95%, non-condensing
Cable	External cable with 4 standard DB25 (C425M) / DB9 (C409M) connectors for cPCI-3534
	External cable with 8 standard DB25 (C825M) / DB9 (C809M) connectors for cPCI-3538
Operating Temperature	0˚C to +60˚C
Storage Temperature	-20˚C to +70˚C
Humidity	5% to 95%, non-condensing

Ordering Information

cPCI-3534
4-port async serial communications module

cPCI-3534R
4-port async serial communications module with rear I/O support

C409M
DB-37 to four DB-9 male cable

C425M
DB-37 to four DB-25 male cable

cPCI-3538
8-port async serial communications module

cPCI-3538R
8-port async serial communications module with rear I/O support and C809M

C809M
DB-62 to eight DB-9 male cable

C825M
DB-62 to eight DB-25 male cable

cPCI-3544 Series

4-port RS-422/RS-485 Isolated Serial Communications Modules

Specifications

Serial Communications Controller	16C550A compatible
System I/O Mapping	Assigned by PCI BIOS
	Shared IRQ
Port Capability	4 independent isolation RS-422/RS-485 ports (switch selectable)
	Max. 8 cards per system (32 ports max.)
Baud Rate	Each port can be configured to 50 to 115,200 bps
Isolation Voltage	2500 V$_{RMS}$
	RS-485 ports support auto-direction flow control
	Supports rear I/O option for cPCI-3544R
Connector	DB37 female connector
Cable	External cable with 4 standard DB25 (C425M) / DB9 (C409M) connectors
Working Temperature	0˚C to +60˚C
Storage Temperature	-20˚C to +70˚C
Humidity	5% to 95% non-condensed

Features

32-bit CompactPCI, PICMG 2.0 Rev 2.1

Plug-and-play, IRQ & I/O address automatically assigned by PCI BIOS

Four asynchronized communications ports with intelligent buffer

Four RS-422/RS-485 ports

2500 V$_{RMS}$ isolation voltage

Suitable for modems, data display, data collection, telecommunications

Supports Multiple OS

Surge protectors

Rugged DB37 connector

Only support CompactPCI interface 5V V(I/O)

Applications

Factory automation
Distributed monitoring and control systems
Telecommunications
POS systems
Stock market systems
Traffic control systems

Software Support

Windows® 2000/XP/XP Embedded
Linux drivers

Ordering Information

cPCI-3544
Isolated 4-port RS-422/RS-485 serial communications module

cPCI-3544R
Isolated 4-port RS-422/RS-485 serial communications module with rear I/O support

C409M
DB37 to four DB9 male cable

C425M
DB37 to four DB25 male cable

cPCI-8994

6U CompactPCI 4-port IEEE 1394a & 4-port RS-232 Card

ADLINK **GREEN** *RoHS Compliant*

Specifications

IEEE 1394	TI TSB43AB23, IEEE 1394a OHCI PHY/Link controller
	TI TSB41AB3, IEEE 1394a 3port transceiver/arbiter
RS-232	OX16PCI954, quad COM ports controller
Baud rate	Up to 15 Mbps in asynchronous mode
Form Factor	Single size: 255.0 mm x 165.0 mm
	+5 V or +3.3 V 32-bit PCI signaling environment
PCI Interface	32-bit Compact PCI, PICMG 2.0 Rev 3.0
OS Support	Windows 2000, XP Embedded, RTX 5.0 or later
I/O	4 ports IEEE 1394a, 4 ports RS-232, and one 12 V power output connector on the front panel
Power Provided to IEEE 1394 Connection	1 A / per port (over-current protection)
Working Temperature	0˚C to +55˚C
Storage Temperature	-20˚C to +80˚C
Humidity	5% to 95% non-condensed

Features

32-bit/33 MHz 6U CompactPCI, PICMG 2.0 Rev 3.0
Plug-and play, IRQ&IO address automatically assigned by BIOS
Four IEEE 1394a ports
Power Provided to IEEE 1394 I/O Connection: 1A/port
Four RS-232 ports, baud rates up to 15 Mbps in asynchronous mode
One 12 V power output connector on the front panel

Applications

Factory automation
Machine automation
Distributed monitoring & control systems
Telecommunication and industrial control

Software Support

Windows® 2000/XP
Linux drivers
RTX 5.0 or later

Ordering Information

cPCI-8994
6U CompactPCI 4-port IEEE 1394a & 4-port RS-232 card

1 Software & Utilities

2 DAQ

3 PXI

4 Modular Instruments

5 GPIB & Bus Expansion

6 PAC

7 Motion

8 Real-time Distributed I/O

9 Remote I/O

10 Communi-cations

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