

cPCI-3544 Series

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

Features

- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 Rev2.1)
- Four asynchronous communications ports with intelligent buffers
- Four RS-422/485 ports
- 2500 VRMS optical isolation
- Suitable for modems, data display, data collection, telecommunication
- Supports Multiple OS
- Surge protectors
- Rugged D-sub connector
- Rear I/O available on cPCI-3544R

Software Support

- •DOS drivers
- •Drivers for Windows 9x/NT/2000/XP
- •Linux drivers



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Introduction

ADLINK cPCI-3544 series are industrial standard RS-422/485 serial communication modules for PXI/CompactPCI form factor. The cPCI-3544 devices feature 4 RS-422/485 ports which are user selectable. The devices include a programmable gate array (PGA) to support the serial communication controller and a 37-pin/62-pin connector to connect external I/O port from the front panel or using the rear IO transition module. The expansion cable has four standard DB25 or DB9 connectors and one DB37 connector to connect with cPCI-3544 interface module. The R-3544 transition module can support rear IO connection by using one DB37 connector.

ADLINK cPCI-3534/3538 devices deliver cost-effective and reliable serial communication capabilities, and are ideal for a broad variety of applications, such as factory automation, monitoring systems, telecommunication, POS systems and traffic control systems.

Specifications

Serial communications controller

- 16C550A compatible

Port Capability

- 4 independent isolation RS-422/485 port (switch selectable)
- Max. 8 modules per system (32-port max.)

Baud Rate

- Each port can be configured to 50-115,200 bps

Isolation voltage

- 2500 VRMS

RS-485 support auto-direction flow control

General Specifications

- I/O connector: 37-pin D-sub female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 70 °C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements (without external devices)

Device	+5V
cPCI-3544	1400 mA typical
cPCI-3544R	1400 mA typical

- Dimensions (not including connectors)
160 mm x 100 mm

Accessories

- **C409M**
DB-37 to four DB-9 male cable
- **C425M**
DB-37 to four DB-25 male cable

Pin Assignment

422_RXD1+(IN)	1	20	422_TXD1+(OUT)
485_D1+(I/O)	2	21	--
422_RXD1-(IN)	3	22	422_TXD1-(OUT)
485_D1-(I/O)	4	23	--
GND1	5	24	422_RXD2+(IN)
422_TXD2+(OUT)	6	25	485_D2+(I/O)
--	7	26	422_RXD2-(IN)
422_TXD2-(OUT)	8	27	485_D2-(I/O)
GND2	9	28	--
--	10	29	--
GND3	11	30	485_D3-(I/O)
422_TXD3-(OUT)	12	31	422_RXDC-(IN)
--	13	32	485_D3+(I/O)
422_TXD3+(OUT)	14	33	422_RXD3+(IN)
GND4	15	34	--
485_D4-(I/O)	16	35	422_TXD4-(OUT)
422_RXD4-(IN)	17	36	--
485_D4+(I/O)	18	37	422_TXD4+(OUT)
422RXD4+(IN)	19		

Ordering Information

- **cPCI-3544/9**
Isolated 4-port RS-422/485 serial communications module with C409M
- **cPCI-3544/25**
Isolated 4-port RS-422/485 serial communications module with C425M
- **cPCI-3544R/9**
Isolated 4-port RS-422/485 serial communications module with rear I/O support and C409M
- **cPCI-3544R/25**
Isolated 4-port RS-422/485 serial communications module with rear I/O support and C425M

Note: Rear I/O version can not be used in PXI chassis due to signals conflict with PXI bus