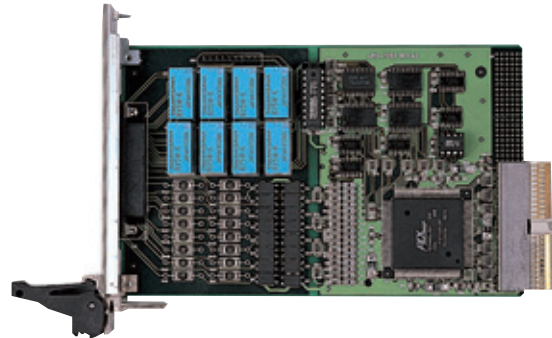


# cPCI-7252

## 8-CH Relay Outputs & 16-CH Isolated DI Module

### Features

- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1)
- 8-CH SPDT relays
- Nonlatching relays
- Onboard relay driving circuits
- Relay output status read back
- 16-CH isolated digital inputs
- Onboard low-pass filtering for digital inputs
- Dual programmable interrupt sources
- **Operating Systems**
  - Windows Vista/XP/2000/2003
  - Linux
  - Windows CE (call for availability)
- **Recommended Software**
  - VB.NET/VC.NET/VB/C++/BCB/Delphi
  - DAQBench
- **Driver Support**
  - DAQPilot for Windows
  - DAQ-LVIEW PnP for LabVIEW™
  - DAQ-MTLB for MATLAB®
  - PCIS-DASK for Windows
  - PCIS-DASK/X for Linux



### Introduction

ADLINK cPCI-7252 is a relay output and isolated digital input module for PXI/Compact form factor. The cPCI-7252 device provides 8 relay outputs and 16 isolated digital inputs. All relays are Form C type, which are suitable for device connection with ON/OFF control. The status of each relay output can be read back through software commands.

All of the digital input channels are non-polarity and optically isolated. You can set for each digital input by using RC filter or not. The devices are suitable for collecting digital inputs in noisy environments. The cPCI-7252 device also features interrupt functions on the digital input channel 0 and 1.

### Specifications

#### Relay Output

- Number of channels: 8
- Relay type: 8 SPDT
- Contact rating
  - AC: 120 V @ 0.5 A
  - DC: 24 V @ 1 A
- Breakdown voltage: 1000 V<sub>RMS</sub>
- Contact resistance: 100 MΩ
- Relay ON/OFF time
  - Operate time: 8 ms
  - Release time: 8 ms
- Expected life
  - >5x10<sup>5</sup> operations @ 1 A, 24 V<sub>DC</sub>
  - >2x10<sup>5</sup> operations @ 0.5 A, 120 V<sub>AC</sub>
- Data transfers: programmed I/O

#### Isolated Digital Input

- Number of channels: 16 (DI0-7 have individual common connections and DI8-15 share a common connection.)
- Maximum input range: 24 V, non-polarity
- Digital logic levels
  - 0-24 V, non-polarity
    - ♦ Input high voltage: 3-24 V
    - ♦ Input low voltage: 0-1 V
- Input resistance: 1.2 kΩ @ 0.5 W
- Isolation voltage: 5000 V<sub>RMS</sub>
- Data transfers: programmed I/O

#### General Specifications

- I/O connector: 50-pin SCSI-II female
- Operating temperature: 0 to 60°C
- Storage temperature: -20 to 80°C
- Relative humidity: 5 to 95%, non-condensing
- Power requirements

Device	+5 V
cPCI-7252	120 mA typical, no relay energized 390 mA typical, all relay energized

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

#### Termination Boards

##### ■ DIN-50S-01

Termination Board with a 50-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included. For information on mating cables, refer to Section 12.)

### Pin Assignment

IGND	1	26	IGND
DI8	2	27	DI12
DI9	3	28	DI13
DI10	4	29	DI14
DI11	5	30	DI15
DI0L	6	31	DI4H
DI0H	7	32	DI4L
DI1L	8	33	DI5H
DI1H	9	34	DI5L
DI2L	10	35	DI6H
DI2H	11	36	DI6L
DI3L	12	37	DI7H
DI3H	13	38	DI7L
NO0	14	39	NO5
NO1	15	40	NO4
COM0	16	41	COM5
COM1	17	42	COM4
NC0	18	43	NC5
NC1	19	44	NC4
NO2	20	45	NO7
NO3	21	46	NO6
COM2	22	47	COM7
COM3	23	48	COM6
NC2	24	49	NC7
NC3	25	50	NC6

### Ordering Information

- **cPCI-7252**  
8-CH Relay Outputs & 16-CH Isolated DI Module