

PCM-7250+

PC/104-Plus 8-CH Relay Outputs & 8-CH Isolated DI Module

Features

- PC/104-Plus specifications Rev. 1.2 compliant
- 4-CH SPDT and 4-CH SPST relays
- Nonlatching relays
- On-board LED indicators for relay status
- On-board relay driving circuits
- Relay output status read back
- 8-CH isolated digital inputs
- On-board low-pass filtering for digital inputs
- **Operating Systems**
 - Windows 2000/NT/XP/9x
 - DOS
 - Red Hat Linux
 - Windows CE (call for availability)
- **Recommended Software**
 - VB/VC++/BCB/Delphi
 - DAQBench
- **Driver Support**
 - PCIS-DASK for Windows 2000/NT/XP/9x
 - PCIS-DASK/X for Red Hat Linux
 - PCIS-OCX ActiveX controls
 - PCIS-LVIEW/PnP for LabVIEW **NEW!**



Introduction

ADLINK PCM-7250+ provides 8-CH relay outputs and 8-CH isolated digital inputs for PC/104-Plus form factor. Four of the relays are SPDT (Form C) and four are SPST (Form A), which are suitable for device connection with ON/OFF control. The status of each relay output is represented by an on-board LED. When the relay is in SET condition, its corresponding LED will turn ON, and on the contrary, it is OFF. 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.

ADLINK PCM-7250+ device delivers cost-effective, general-purpose and reliable control capability, and is ideal for a wide variety of industry applications.

Specifications

Relay Output

- Number of channels: 8
- Relay types
 - Channel 0-3: SPDT (Form C)
 - Channel 4-7: SPST (Form A)
- Contact rating: DC: 30 V @ 2 A
- Breakdown voltage: 1000 V_{RMS}
- Contact resistance: 100 mΩ
- Relay ON/OFF time
 - Operate time: 8 ms
 - Release time: 8 ms
- LED indicators: on-board LEDs for relay status
- Expected life:
 - >10⁵ operations @ 2 A, 30 V_{bc}
 - >5x10⁵ operations @ 1 A, 30 V_{bc}
- Data transfer: programmed I/O

Isolated Digital Input

- Number of channels: 8
- Maximum input range: 24 V, non-polarity
- Digital logic levels
 - 0-24 V, non-polarity
 - Input high voltage: 5-24 V
 - Input low voltage: 0-1.5 V
- Input resistance: 2.4 kΩ @ 0.5 V
- Isolation voltage: 2500 V_{RMS}
- Data transfer: programmed I/O

General Specifications

- I/O Connector: 20-pin ribbon male x 2
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements

Device	+5 V
PCM-7250+	140 mA typical

- Dimensions (not including connectors)
95.9 mm x 90.2 mm

Termination Boards

- **DIN-20P**
Termination Board with a 20-pin Ribbon Connector and DIN-Rail Mounting (Including One 1-meter ACL-10120 Cable)



Pin Assignment

CN0

NO0	1	2	NO3
COM0	3	4	COM3
NC0	5	6	NC0
NO1	7	8	NO4
COM1	9	10	COM4
NC1	11	12	NO5
NO2	13	14	COM5
COM2	15	16	NO6
NC2	17	18	COM6
NO7	19	20	N/C

CN1

COM7	1	2	DI0L
DI0H	3	4	DI1L
DI1H	5	6	DI2L
DI2H	7	8	DI3L
DI3H	9	10	DI4L
DI4H	11	12	DI5L
DI5H	13	14	DI6L
DI6H	15	16	DI7L
DI7H	17	18	N/C
N/C	19	20	N/C

Ordering Information

- **PCM-7250+**
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