

PCM-7230+

PC/104-Plus 16-CH Isolated DI & 16-CH Isolated DO module

Features

- PC/104-Plus specifications Rev. 1.2 compliant
 - 16-CH isolated digital inputs and 16-CH isolated digital outputs
 - Non-polarity digital input range
 - Isolated input voltage up to 24 V
 - 2500 VRMS optical isolation
 - Sink current up to 500 mA on each isolated output
 - Two external interrupt sources
- **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-7230+ is a 32-CH isolated digital input and output module for PC/104-Plus form factor. It provides a robust 2500 V isolation protection which is suitable for most industrial applications. The wide input range makes it easy to sense the status of external devices. The non-polarity characteristic is suitable for a wide variety of industry applications. The PCM-7230+ device features a wide output range from 5 to 35 V, which is suitable for relay driving and industrial automation applications. The device also provides two interrupt sources on digital input channels, which are easily user configurable.

Specifications

Isolated Digital Input

- Number of channels: 16
- Maximum input range: 24 V, non-polarity
- Digital logic levels
 - 0-24 V, non-polarity
 - Input high voltage: 3 to 24 V
 - Input low voltage: 0 to 1 V
- Input Resistance: 1.2 kΩ @ 0.5 W
- Isolation voltage: 2500 VRMS
- Interrupt sources: digital input channel 0 & 1
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels: 16
- Output type: open collector Darlington transistor
- Sink current
 - 500 mA for one channel @ 100% duty
 - 500 mA for all channels @ 20% duty
- Power dissipation: Max. 2.25 W per chip (8 DO channels)
- Supply voltage: 5 to 35 V
- Isolation voltage: 2500 VRMS
- Data transfers: 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-7230+	150 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

CN1			
IDI_0	1	2	IDI_1
IDL_2	3	4	IDI_3
IDL_4	5	6	IDI_5
IDL_6	7	8	IDI_7
IDL_8	9	10	IDI_9
IDL_10	11	12	IDI_11
IDI_12	13	14	IDI_13
IDL_14	15	16	IDI_15
EICOM	17	18	EOGND
EOGND	19	20	EOGND

CN2			
IDO_0	1	2	IDO_1
IDO_2	3	4	IDO_3
IDO_4	5	6	IDO_5
IDO_6	7	8	IDO_7
IDO_8	9	10	IDO_9
IDO_10	11	12	IDO_11
IDO_12	13	14	IDO_13
IDO_14	15	16	IDO_15
VDD	17	18	EOGND
EOGND	19	20	EOGND

Ordering Information

- **PCM-7230+**
PC/104-Plus 16-CH Isolated DI & 16-CH Isolated DO module

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