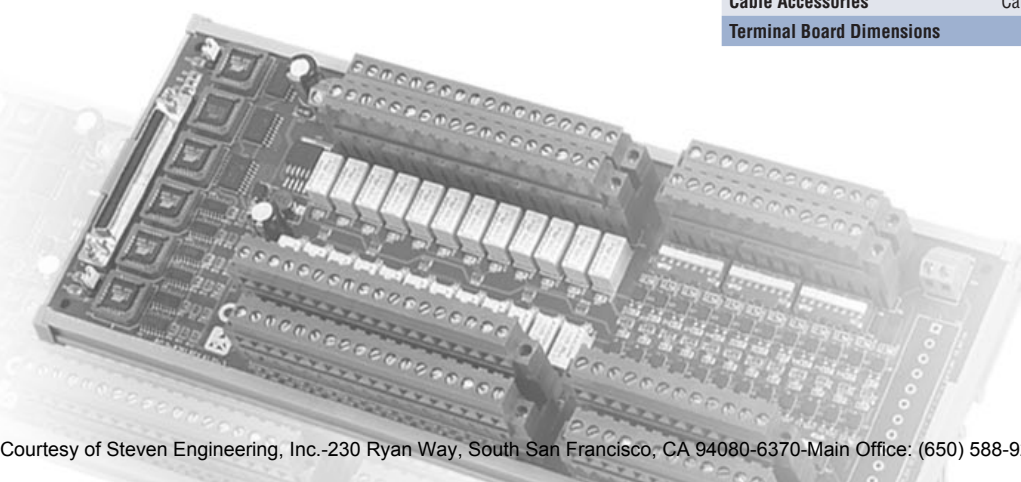


Signal Conditioning Modules and Terminal Boards

Terminal Boards Selection Guide		12-2
ADAM-3000 Series		12-4
Signal Conditioning Modules		
ADAM-3011	Isolated Thermocouple Module	12-6
ADAM-3013	RTD Input Module	
ADAM-3014	Isolated DC Input/Output Module	12-7
ADAM-3016	Isolated Strain Gauge Input Module	
Isolated Digital I/O Terminal Boards		
ADAM-3854	4-ch DIN-rail Mounting Power Relay Module	12-8
ADAM-3864	4-ch SSD I/O Module Carrier Backplane	
PCLD-780/PCLD-880	Universal Screw-terminal Boards	12-9
PCLD-782/PCLD-782B	16/24-ch Opto-Isolated DI Boards	12-10
PCLD-785/PCLD-785B/PCLD-885	16/24-ch Relay Output Boards	12-11
PCLD-786	8-ch SSR I/O Module Carrier Board	12-12
PCLD-7216	16-ch SSR I/O Module Carrier Board	
PCLD-788	16-ch Relay Multiplexer Board	12-13
PCLD-789D	Amplifier and Multiplexer Board	12-14
PCLD-8115/PCLD-8710	Industrial Wiring Terminal Boards with CJC Circuit	12-15
PLCD-8751	48-ch Opto-Isolated Digital Input Board	12-16
PCLD-8761	24-ch Opto-Isolated DI and 24-ch Relay Output Board	
PCLD-8762	48-ch Relay Output Board	12-17
I/O Wiring Terminal Boards		
ADAM-3909	DB9 Wiring Terminal for DIN-rail Mounting	12-18
ADAM-3915	DB15 Wiring Terminal for DIN-rail Mounting	12-18
ADAM-3920	20-pin Flat Cable Wiring Terminal for DIN-rail Mounting	12-18
ADAM-3925	DB25 Wiring Terminal for DIN-rail Mounting	12-18
ADAM-3937	DB37 Wiring Terminal for DIN-rail Mounting	12-18
ADAM-3944	DB44 Wiring Terminal for DIN-rail Mounting	12-18
ADAM-3950	50-pin Flat Cable Wiring Terminal for DIN-rail Mounting	12-19
ADAM-3950D	Dual 50-pin SCSI-II Wiring Terminal for DIN-rail Mounting	12-19
ADAM-3950S	50-pin SCSI-II Wiring Terminal for DIN-rail Mounting	12-19
ADAM-3951	Wiring Terminal Module with LED indicators for DIN-rail Mounting	12-19
ADAM-3962	DB62 Wiring Terminal for DIN-rail Mounting	12-20
ADAM-3968/50	68-pin SCSI-II to Two 50-pin Box Header for DIN-rail Mounting	12-20
ADAM-3968	68-pin SCSI-II Wiring Terminal for DIN-rail Mounting	12-20
ADAM-3968/20	68-pin SCSI-II to Three 20-pin Wiring Terminal Module for DIN-rail Mounting	12-20
ADAM-3978	DB78 Wiring Terminal for DIN-rail Mounting	12-20
ADAM-39100	100-pin SCSI-II Wiring Terminal for DIN-rail Mounting	12-20
Cable Accessories	Cable Accessories	12-21
Terminal Board Dimensions		12-22



Terminal Boards Selection Guide

Recommended Cables, I/O Wiring Terminal Boards and Isolated DI/O Terminals for Connecting to PCI-bus/CompactPCI DA&C Cards

DA&C Card	Cable	I/O Wiring Terminal Board	Cable	Isolated DI/O Terminal
PCI-1710/1710L/1710HGL/1710HG/ 1711/1711L/1716/1716L/1741U/1742U	PCL-10168	PCLD-8710 PCLD-8710BNC	PCL-10120	PCLD-782
PCI-1712/1712L	PCL-10168	PCLD-8712		
PCI-1721/1723/PCI-1780U MIC-3716/3780	PCL-10168	ADAM-3968		PCLD-782B
PCI-1751	PCL-10168	ADAM-3968		PCLD-785
		ADAM-3968/50	PCL-10150	
		ADAM-3968/20	PCL-10120	
PCI-1713/1715U	PCL-10137	ADAM-3937		PCLD-785B
		PCLD-881B		
PCI-1720U/1727/1730/1733/1734/ 1750/1760U/1761 MIC-3761	PCL-10137	ADAM-3937		
PCI-1784U	PCI-10137H			
PCI-1753/1753E	PCL-10268	PCLD-8751/8761/8762		PCLD-786
		ADAM-3968		
		ADAM-3968/50	PCL-10150	
		ADAM-3968/20	PCL-10120	
PCI-1752U/1752US0/1754/1756	PCL-10250	ADAM-3951		
PCI-1724/1762	PCL-10162	ADAM-3962		
PCI-1240U	PCL-10251	ADAM-3952		
		ADAM-3952M		
PCI-1241/1242	PCL-10168	ADAM-3968M		
PCI-1261	PCL-101101	ADAM-39100M		
PCI-1714/1714UL/MIC-3714	PCL-10901	ADAM-3909		
	PCL-1010B			
PCI-1755	PCL-101100	ADAM-39100		PCLD-7216
MIC-3753/3756	PCL-10178	ADAM-3978		

Selection Guide

Recommended Cables, I/O Wiring Terminal Boards and Isolated DI/O Terminals for Connecting to ISA-bus DA&C Cards

ISA-bus DA&C Card	Cable	I/O Wiring Terminal Board	Isolated DI/O Terminal
PCL-711B/S	PCL-10120 PCL-10120	PCLD-7115	PCLD-782
PCL-818L/818HD/818HG	PCL-10137 PCL-10120	PCLD-8115	PCLD-782B
PCL-818H	PCL-10120 PCL-10120	PCLD-8115	PCLD-785
PCL-812PG	PCL-10120 PCL-10120		PCLD-785B
PCL-813B	PCL-10137	PCLD-881B	PCLD-885
PCL-726	PCL-10120 PCL-10120	PCLD-780	PCLD-786
PCL-727/730/836/839	PCL-10137 PCL-10120	PCLD-880	PCLD-7216
PCL-720+	PCL-10120		
PCL-722/724/731	PCL-10150		
PCL-725/733/734/735	PCL-10137	PCLD-880	

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

8
FPM

9
AWS

10
Plug-in I/O

11
CompactPCI

12
Signal Conditioning

13
USB I/O

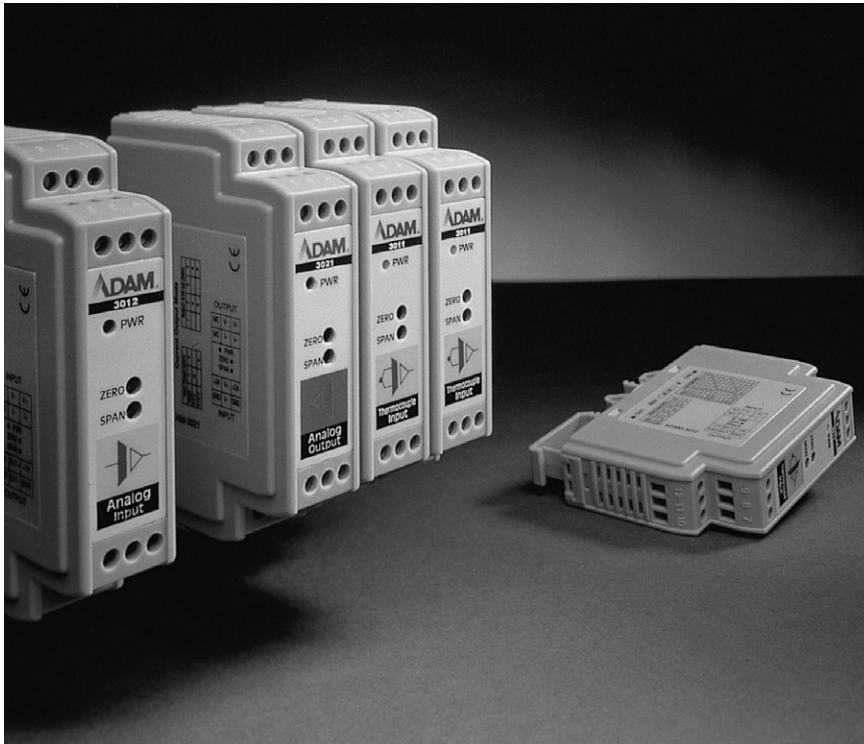
14
Motion Control I/O

15
Ethernet Switch

16
EDG

17
ICOM

ADAM-3000 Series



Features

- 1,000 V_{DC} three-way isolation
- Easy input/output range configuration
- Flexible DIN-rail mounting
- Linearized thermocouple/RTD measurement
- Low power consumption
- Wide input bandwidth

Introduction

The ADAM-3000 Series consist of the most cost-efficient, field configurable, isolation-based, signal conditioners on the market today. The modules are easily installed to protect your instruments and process signals from the harmful effects of ground loops, motor noise, and other electrical interferences.

Affordable Signal Isolation Solution

Featuring optical isolation technology, the ADAM-3000 modules provide three-way (input/output/power) 1,000 V_{DC} isolation. Optical isolation provides pin-point accuracy and stability over a wide range of operations at minimal power consumption.

Flexible Analog Data Conversion

The input/output range for the ADAM-3000 modules can be configured through switches located inside the module. The modules accept voltage, current, thermocouple or RTD as input, and pass voltage or current as output.

Thermocouple input is handled by the built-in input thermocouple linearization circuitry and a cold junction compensation function. These ensure accurate temperature measurement and accurate conversion of this information to the voltage or current output.

Configuration

The ADAM-3000 modules use +24 V_{DC} power. This electrical power wiring can be acquired from adjacent modules, which greatly simplifies wiring and maintenance. The I/O configuration switches are located inside the modules. To reach the switches, simply remove the modules from the DIN-rail bracket by sliding the modules downward.

Modular Industrial Design

The ADAM-3000 modules can be easily mounted on a DIN-rail, and signal wires can be connected through screw terminals. The screw terminals and input/output configuration switches are built inside the industrial grade plastic casing. With simple two-wire input/output cables, wiring is easy and reliable in harsh industrial environments.

Applications

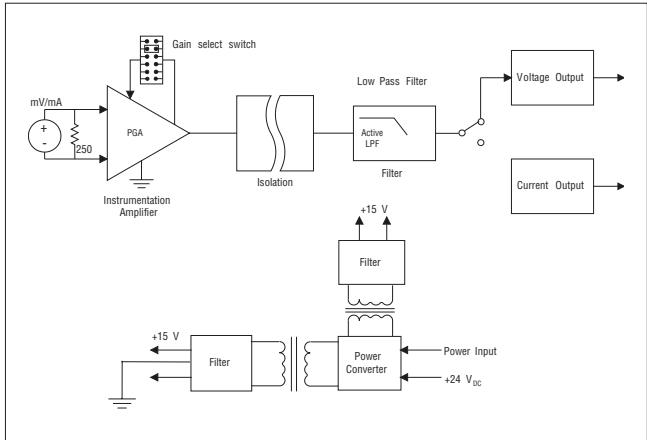
- Signal isolation
- Signal transmitters
- Thermocouple/RTD/strain gauge measurements
- Signal amplifiers
- Noise filter

Common Specifications

- | | |
|-------------------------|---|
| ▪ Isolation | 1,000 V _{DC} |
| ▪ Indicators | Power LED indicator |
| ▪ Power Requirement | +24 V _{DC} ± 10% |
| ▪ Case | ABS |
| ▪ Screw Terminal | Accepts 0.5 mm ² ~ 2.5 mm ²
1- #12 or 2- #14 ~ #22 AWG |
| ▪ Operating Temperature | 0 ~ 70° C (32 ~ 158° F)
(except ADAM-3011) |
| ▪ Storage Temperature | -25~ 85° C (-13~185° F) |

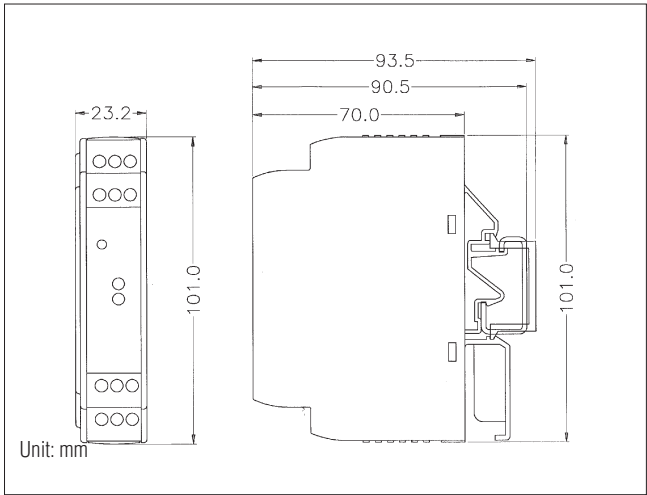
Isolated Signal Conditioning Modules

Block Diagram



Block Diagram of ADAM-3014

Dimensions

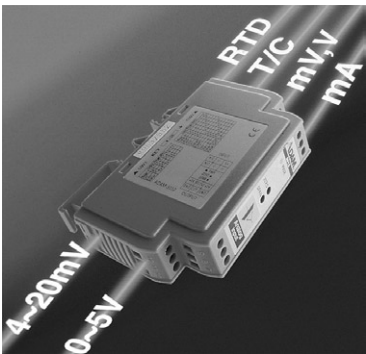


ADAM-3000 Series Modules



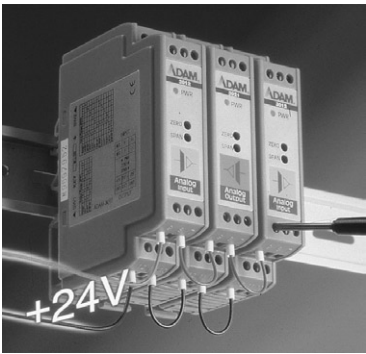
3-Way Signal Isolation

3-way (input/output/power)
1,000 V_{DC} isolation.



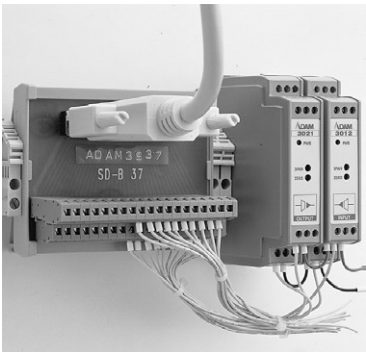
Field Configurable I/O Range

The I/O range can be configured on site with switches inside the module.



Easy Daisy Chain Power Wiring

Power can be connected conveniently from adjacent modules.



Interfacing to DA&C Cards

A wiring adapter can connect modules to a data acquisition card.

1	PAC & Software
2	BAS
3	UNO
4	RS-485 I/O
5	Ethernet I/O
6	TPC
7	IPPC
8	FPM
9	AWS
10	Plug-in I/O
11	CompactPCI
12	Signal Conditioning
13	USB I/O
14	Motion Control I/O
15	Ethernet Switch
16	EDG
17	ICOM

ADAM-3011

ADAM-3013

Isolated Thermocouple Input Module

Isolated RTD Input Module



Specifications

Thermocouple Input

- **Common Mode** 115 dB min
- **Rejection**
- **Input Type**
T/C type, temperature range and accuracy at 25° C:

J	-40° ~	760° C	(±2° C)
K	0° ~	1000° C	(±2° C)
T	-100° ~	400° C	(±2° C)
E	0° ~	1000° C	(±2° C)
S	500° ~	1750° C	(±4° C)
R	500° ~	1750° C	(±4° C)
B	500° ~	1800° C	(±4° C)
- **Isolation (three way)** 1,000 V_{DC}
- **Output Impedance** 0.5 Ω
- **Stability (temperature drift)** ±2° C
- **Voltage Output** 0 ~ 10 V

General

- **Certifications** CE, FM
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation** 1,000 V_{DC}
- **Power Consumption** 1.4 W
- **Power Input** +24 V_{DC} ± 10%

Environment

- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storing Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **ADAM-3011** Isolated Thermocouple Input Module

Specifications

RTD Input

- **Accuracy** +/- 0.1% of full range (voltage) or +/- 0.15° C (voltage)
+/- 0.2% of full range (current)
- **Bandwidth** 4 Hz
- **Input CMR at DC** 92 dB minimum
- **Input Connections** 2, 3 or 4 wires
- **Input Type** Pt or Ni RTD
- **RTD Types and Temperature Ranges**

Pt	-100° ~	100° C	a=0.00385
Pt	0° ~	100° C	a=0.00385
Pt	0° ~	200° C	a=0.00385
Pt	0° ~	600° C	a=0.00385
Pt	-100° ~	0° C	a=0.00385
Pt	-100° ~	200° C	a=0.00385
Pt	-50° ~	50° C	a=0.00385
Pt	-50° ~	150° C	a=0.00385
Pt	-100° ~	100° C	a=0.00392
Pt	0° ~	100° C	a=0.00392
Pt	0° ~	200° C	a=0.00392
Pt	0° ~	600° C	a=0.00392
Ni	0° ~	100° C	
Ni	-80° ~	100° C	
- **Output Range** 0 ~ 5 V, 0 ~ 10 V, 0 ~ 20 mA
- **Output Resistance** < 5 Ω
- **Temperature Drift** +/- 30 ppm of full range

General

- **Certifications** CE, FM
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation** 1,000 V_{DC}
- **Power Consumption** < 0.95 W
- **Power Input** 24 V_{DC} ± 10%

Environment

- **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- **Storing Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **ADAM-3013** Isolated RTD Input Module

ADAM-3014

ADAM-3016

Isolated DC Input/Output Module

Isolated Strain Gauge Input Module



ADAM-3014



Specifications

I/O

- **Accuracy** $\pm 0.1\%$ of full range (typical)
- **Common Mode** > 100 dB @ 50 Hz/60 Hz

Rejection

- **Current Input** Bipolar: ± 20 mA
Unipolar: $0 \sim 20$ mA
Input impedance: 250Ω
- **Current Output** $0 \sim 20$ mA
- **Stability (temperature drift)** 150 ppm (typical)
- **Voltage Input** Bipolar input: ± 10 mV, ± 50 mV, ± 100 mV, ± 0.5 V, ± 1.0 V, ± 5 V, ± 10 V
Unipolar input: $0 \sim 10$ mV, $0 \sim 50$ mV, $0 \sim 100$ mV, $0 \sim 0.5$ V, $0 \sim 1$ V, $0 \sim 5$ V, $0 \sim 10$ V
Input impedance: $2 M\Omega$
Input bandwidth: 2.4 kHz (typical)
- **Voltage Output** Bipolar: ± 5 V, ± 10 V
Unipolar: $0 \sim 10$ V
Impedance: $< 50 \Omega$
Drive: 10 mA max.

General

- **Certifications** CE, FM
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation (three way)** 1,000 V_{DC}
- **Power Consumption** 0.85 W (voltage output)
1.2 W (current output)
- **Power Input** 24 V_{DC} $\pm 10\%$

Environment

- **Operating Temperature** $0 \sim 70^\circ \text{C}$ ($32 \sim 158^\circ \text{F}$)
- **Storing Temperature** $-25 \sim 85^\circ \text{C}$ ($-13 \sim 185^\circ \text{F}$)

Ordering Information

- **ADAM-3014** Isolated DC Input/Output Module



ADAM-3016



Specifications

I/O

- **Accuracy** $\pm 0.1\%$ of full range
- **Bandwidth** 2.4 kHz (typical)
- **Isolation Mode Rejection** > 100 dB @ 50 Hz/60 Hz
- **Current Output** Current: $0 \sim 20$ mA
Current load resistor: $0 \sim 500 \Omega$ (Source)
150 ppm (typical)
- **Stability (temperature drift)**
- **Voltage Specifications** Electrical input: ± 10 mV, ± 20 mV, ± 30 mV, ± 100 mV
Excitation voltage: $1 \sim 10$ V_{DC} (60 mA max)
- **Voltage Output** Bipolar: ± 5 V, ± 10 V
Unipolar: $0 \sim 10$ V
Impedance: $< 50 \Omega$

General

- **Certifications** CE
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation (three way)** 1,000 V_{DC}
- **Power Consumption** ≤ 1.85 W (voltage output)
 ≤ 2.15 W (current output)
- **Power Input** 24 V_{DC} $\pm 10\%$

Environment

- **Operating Temperature** $-10 \sim 70^\circ \text{C}$ ($14 \sim 158^\circ \text{F}$)
- **Storing Temperature** $-25 \sim 85^\circ \text{C}$ ($-13 \sim 185^\circ \text{F}$)

Ordering Information

- **ADAM-3016** Isolated Strain Gauge Input Module

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

8
FPM

9
AWS

10
Plug-in I/O

11
CompactPCI

12
Signal Conditioning

13
USB I/O

14
Motion Control I/O

15
Ethernet Switch

16
EDG

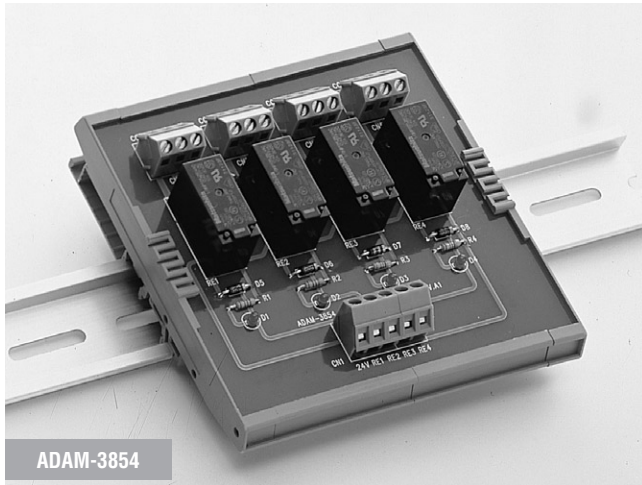
17
ICOM

ADAM-3854

ADAM-3864

4-ch Power Relay Module

4-ch Solid State Digital I/O Module Carrier Backplane



Features

- High power relays can handle up to 5 A @ 250 V_{AC} and 5 A @ 30 V_{DC}
- 4 single-pole double-throw (SPDT) relays
- Industrial screw terminals for easy output wiring
- LED status indicators
- Onboard varistor protects relay contact points
- DIN-rail mounting
- All the relay outputs and relay controls are accessible through wiring terminals, allowing the ADAM-3854 to be easily connected to any item of equipment or device such as programmable logic controllers (PLCs).

Specifications

I/O

- Channels** 4
- Contact Rating** AC: 250 V @ 5 A
DC: 30 V @ 5 A
- Contact Resistance** 100 mΩ
- Operation Time** 15 ms max.
- Relay Type** SPDT (Form C)
- Release Time** 5 ms max.
- Life Expectancy** 1.7 x 10⁵ at rated load

Varistor

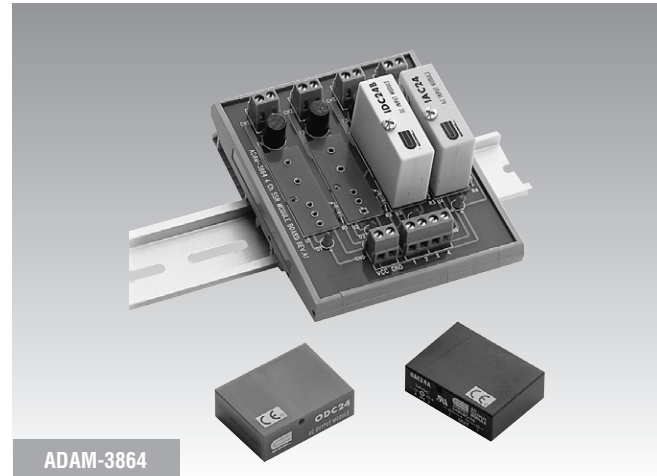
- Clamping Voltage** 760 V (10 A)
- Maximum Applied Voltage** 300 V_{RMS}
- Max. Peak Current** 1,200 A for 8 ms
- Varistor Voltage** 470 V (current = 1 mA)

General

- Connectors** Screw terminals
- Dimensions (L x W x H)** 112.5 x 118.4 x 46 mm (4.43" x 4.66" x 1.81")
- LED Indicators** Status displayed for each relay
- Mounting** DIN 35 rail
- Power Consumption** 2.2 W
- Power Input** +24 V_{DC}

Ordering Information

- ADAM-3854** 4-ch DIN-rail Mounting Power Relay Module



Features

- 4-channel carrier backplane for any combination of AC or DC I/O modules
- 2,500 V_{RMS} optical isolation
- LED channel status indicator for easy monitoring
- Onboard fuse protection
- DIN-rail mounting

Specifications

Input Modules

Field Side:

- Turn on/off Time** IAC24 series: 20 msec. max.
IAC24A series: 20 msec. max.
IDC24B series: 100 msec. max.
- Input on/off Voltage Range** IAC24 series: 90 ~ 140 V/45 V_{RMS}
IAC24A series: 180 ~ 280 V/80 V_{RMS}
IDC24B series: 3 ~ 32 V/1 V_{DC}
- Input Resistance** IAC24 series: 14 kΩ
IAC24A series: 44 kΩ
IDC24B series: 1.5 kΩ

Logic Side:

- Breakdown Voltage** 30 V_{DC}
- Output Current** 100 mA max.
- Output Voltage Drop** 0.4 V max.
- Supply Current** 12 mA max.
- Supply Voltage** 24 V_{DC}

Output Modules

Field Side:

- Contact Voltage Drop** 1.6 V max.
- Current Rating** 3 A max. (@ 25° C)
- Turn on/ Turn off Time** OAC series: ½ AC cycle max.
ODC series: 100 μsec./750 μsec. max.

Logic Side:

- Input Resistance** 220 Ω
- Supply Current** 12 mA max.
- Supply Voltage** 24 V

CANNOT FIT ALL SPECS

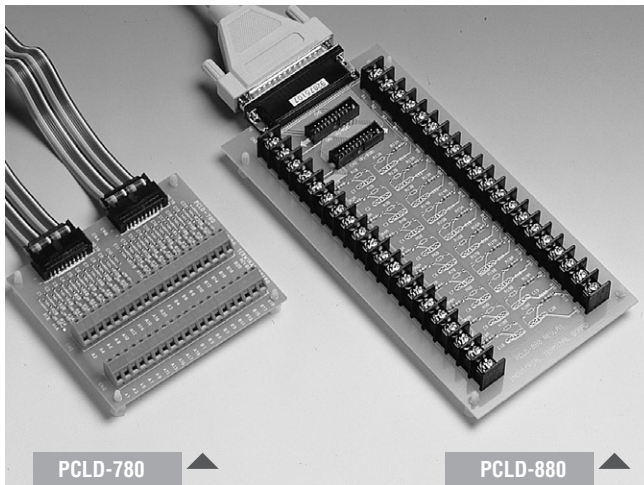
- Dimensions (L x H x W)** 118.4 x 90 x 59 mm (4.66" x 3.54" x 2.32")
- Mounting** DIN 35 rail

Ordering Information

- ADAM-3864** 4-ch Solid State Digital I/O Module Carrier Backplane
- OAC24A** AC Output Module (24-280 V_{AC}, 3 A)
- ODC24** DC Output Module (5-60 V_{DC}, 3 A)
- PCLM-ODC5** DC Output Module (ODC5, 5-60 V_{AC})
- IAC24** AC Input Module (90-140 V_{AC})
- IAC24A** AC Input Module (180-280 V_{AC})
- IDC24B** DC Input Module (3-32 V_{DC})

PCLD-780 PCLD-880

Screw Terminal Board Industrial Wiring Terminal Board w/Adapter



Features

- Pin to pin design
- Low-cost universal screw-terminal boards for industrial applications
- 40 terminal points for two 20-pin flat cable connector ports
- Reserved space for signal-conditioning circuits such as low-pass filter, voltage attenuator and current-to-voltage conversion
- Table-top mounting using nylon standoffs. Screws and washers provided for panel or wall mounting
- PCLD-780 Only**
 - Screw-clamp terminal-blocks allow easy and reliable connections
 - Dimensions: 102 x 114 mm (4.0" x 4.5")
- PCLD-880 Only**
 - Supports PC-LabCard™ products with DB-37 connectors
 - Industrial-grade terminal blocks (barrier-strip) permit heavy-duty and reliable connections
 - Dimensions: 221 x 115 mm (8.7" x 4.5")

Introduction

PCLD-780 and PCLD-880 universal screw-terminal boards provide convenient and reliable signal wiring for PC-LabCard™ products with 20-pin flat-cable connectors. PCLD-880 is also equipped with a DB37 connector to support PC-LabCard™ products with DB37 connectors.

PCLD-780 and PCLD-880 let you install passive components on the special PCB layout to construct your own signal-conditioning circuits.

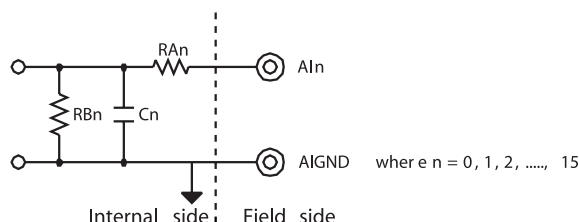
You can easily construct a low-pass filter, attenuator or current-to-voltage converter by adding resistors and capacitors onto the board's circuit pads.

Applications

- Field wiring for analog and digital I/O channels of PC-LabCard™ products which employ the standard 20-pin flat cable connectors or DB37 connectors (only PCLD-880)
- Signal conditioning circuits can be implemented as illustrated in the following examples:

a) Straight-through connection (factory setting)

$R_{An} = 0\Omega$ jumper



$R_{Bn} = \text{none}$

$C_n = \text{none}$

b) 1.6 kHz (3dB) low pass filter

$R_{An} = 10\text{ K}\Omega$

$R_{Bn} = \text{none}$

$C_n = 0.01\mu\text{F}$

$$f_{3dB} = \frac{1}{2\pi R_{An} C_n}$$

c) 10 : 1 voltage attenuator:

$R_{An} = 9\text{ K}\Omega$

$R_{Bn} = 1\text{ K}\Omega$

$C_n = \text{none}$

$$\text{Attenuation} = \frac{R_{Bn}}{R_{An} + R_{Bn}}$$

(Assume source impedance $\ll 10\text{ K}\Omega$)

d) 4 ~ 20 mA to 1 ~ 5 VDC signal converter:

$R_{An} = 0\Omega$ (short)

$R_{Bn} = 250\Omega$ (0.1% precision resistor)

$C_n = \text{none}$

Pin Assignments

CN5 (PCLD-880 only)

CN1				CN2			
A1	1	2	A2	B1	1	2	B2
A3	3	4	A4	B3	3	4	B4
A5	5	6	A6	B5	5	6	B6
A7	7	8	A8	B7	7	8	B8
A9	9	10	A10	B9	9	10	B10
A11	11	12	A12	B11	11	12	B12
A13	13	14	A14	B13	13	14	B14
A15	15	16	A16	B15	15	16	B16
A17	17	18	A18	B17	17	18	B18
A19	19	20	A20	B19	19	20	B20

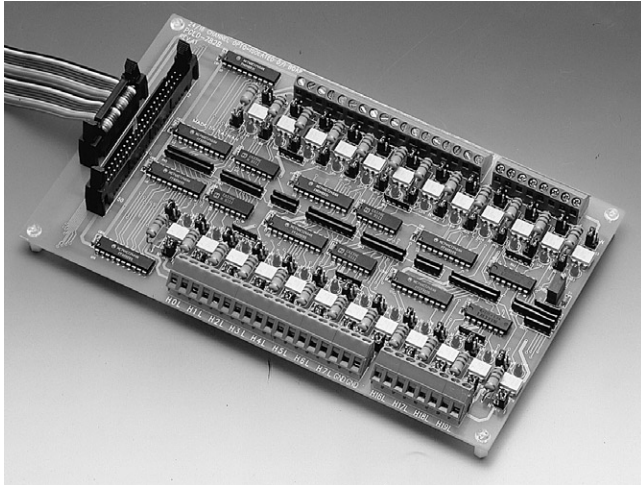
Ordering Information

- PCLD-780** Screw terminal Board, two 1m 20-pin flat cables (PCL-10120-1)
- PCLD-880** Industrial Wiring Terminal Board, two 1m 20-pin flat cables (PCL-10120-1), and one PCL-10501 adapter (20-pin analog flat connector to DB37 connector)
- PCL-10137-1** DB37 cable assembly, 1 m
- PCL-10137-2** DB37 cable assembly, 2 m
- PCL-10137-3** DB37 cable assembly, 3 m

PCLD-782 PCLD-782B

16-ch Opto-Isolated DI Board

16/24-ch Opto-Isolated DI Board



CE

Features

- Compatible with all PC-LabCard™ products with DI channels on either 20-pin flat cable or 50-pin Opto-22 compatible connectors.
- 16 or 24 optically-isolated digital input channels
- Built-in screw terminals for easy input wiring
- LEDs indicate input logic status
- Inputs buffered with voltage comparators

Introduction

PCLD-782 and PCLD-782B digital input daughterboards feature high-voltage ($> 1,500 V_{DC}$) optical isolation on all inputs. PCLD-782 provides 16 input channels accessible through one 20-pin flat cable connector, which is standard on most PC-LabCard™ products. The PCLD-782B provides either 16 or 24 channels, depending on what connector you use. The PCLD-782B's 20-pin connector lets you access 16 channels, similar to the PCLD-782, but also provides a 50-pin Opto-22 connector with access to 24 channels.

Both cards have onboard screw terminals for easy input wiring. Optically isolated signal conditioning provides isolation between separate channels, as well as between each input channel and the PC. This isolation prevents floating potential and ground loop problems while protecting the input lines from potentially damaging fault conditions.

A red LED on each input channel indicates its status. If the input signal is high, the LED is lit. You can configure each channel to work in either isolated or non-isolated mode. A variable resistor adjusts the threshold level for all 24 isolated input channels simultaneously.

Specifications

Digital Input

- Input Channels** 24 (PCLD-782B), 16 (PCLD-782)
- Input Range** 0 ~ 24 V_{DC}
- Input Resistance** 560 Ω
- Isolation Voltages** 1,500 V_{DC} min.
- Threshold Voltage** 1.5 V_{DC} (VR adjustable)

General

- Certifications** CE
- Connectors**
 - Digital Input: Screw terminals (#12 ~ 22 AWG)
 - Controller: PCLD-782: 1 x 20-pin flat cable connector (CN1)
- Dimensions (L x W)**
 - PCLD-782: 3U—205 x 114 mm (8.1" x 4.5")
 - PCLD-782B: 4U—220 x 132 mm (8.7" x 5.2")
- LED Indicators** Indicates input logic status
- Mounting** 4 x screw holes for flat surface mounting

Ordering Information

- PCLD-782B** 16/24-ch Opto-isolated DI Board, user's manual, one 1m 20-pin flat cable assembly (P/N: PCL-10120-1) and one 1.2m 50-pin flat cable (P/N: PCL-10150-1.2)
- PCLD-782** 16-ch Opto-isolated DI Board, user's manual and 1 x 1 m 20-pin flat cable assembly (P/N: PCL-10120-1)
- PCL-10120-1** 20-pin flat cable assembly, 1 m
- PCL-10120-2** 20-pin flat cable assembly, 2 m
- PCL-10150-1.2** 50-pin flat cable, 1.2 m (for connecting the PCL-722 or 724 to the PCLD-885, 782B or 785B)

Pin Assignments

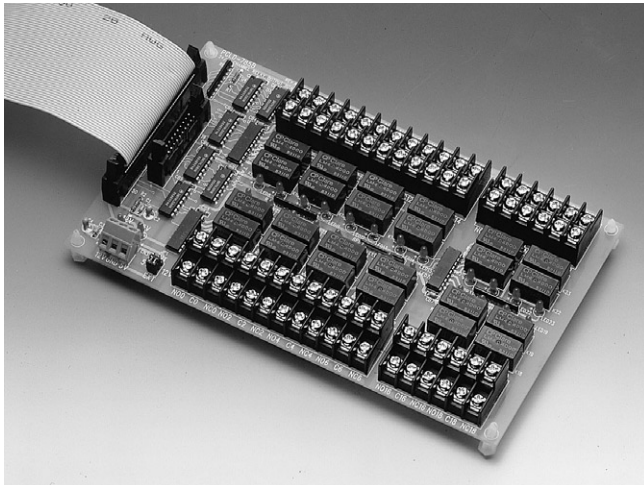
CN1				CN2			
DI0	1	2	DI1	DI23	1	2	GND
DI2	3	4	DI3	DI22	3	4	GND
DI4	5	6	DI5	DI21	5	6	GND
DI6	7	8	DI7	DI20	7	8	GND
DI8	9	10	DI9	DI19	9	10	GND
DI10	11	12	DI11	DI18	11	12	GND
DI12	13	14	DI13	DI17	13	14	GND
DI14	15	16	DI15	DI16	15	16	GND
GND	17	18	GND	DI15	17	18	GND
+5 V	19	20	+12 V	DI14	19	20	GND
				DI13	21	22	GND
				DI12	23	24	GND
				DI11	25	26	GND
				DI10	27	28	GND
				DI9	29	30	GND
				DI8	31	32	GND
				DI7	33	34	GND
				DI6	35	36	GND
				DI5	37	38	GND
				DI4	39	40	GND
				DI3	41	42	GND
				DI2	43	44	GND
				DI1	45	46	GND
				DI0	47	48	GND
				+5 V	49	50	GND

PCLD-785 PCLD-785B PCLD-885

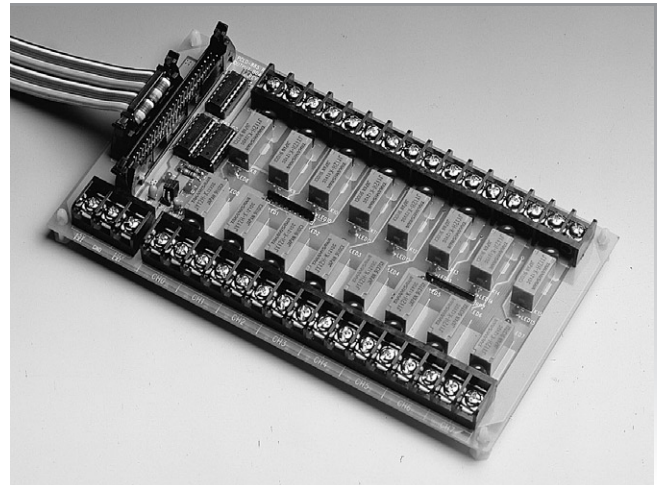
16-ch Relay Output Board

24-ch Relay Output Board

16-ch Power Relay Output Board



PCLD-785/785B



PCLD-885



Features

- Compatible with PC-LabCard™ products with 20-pin digital output connector and 50-pin Opto-22 digital output connector (PCLD-785B only)
- Automatic selection of control logic (PCLD-785B only): Negative logic for the Opto-22 connector Positive logic for the 20-pin flat cable connector
- Relays: PCLD-785: 16 SPDT, PCLD-785B: 16 or 24 SPDT
- Onboard relay driver circuits
- Screw terminals for easy output wiring
- LED status indicators

Specifications

Relay

- Channels**

PCLD-785:	16 (CN1, 20-pin conn.)
PCLD-785B:	16 (CN1, 20-pin conn.) 24 (CN2, 50-pin conn.)
- Contact Ratings** 120 V_{AC} @ 0.5 A, 30 V_{DC} @ 1 A
- Contact Resistance** < 100 mΩ
- Control Logic** 20-pin flat cable conn.: Input TTL high (+5 V) = Relay on
50-pin Opto-22 conn.: Input TTL low (0 V) = Relay on
- Operation Time** 5 ms max.
- Insulation Resistance** 100 MΩ
- Life Expectancy** AC: 5 x 10⁵ @ 110 V/0.3 A
DC: 5 x 10⁵ @ 24 V/1.25 A
- Relay Type** SPDT (Single-Pole Double-Throw) Form C
- Release Time** 5 ms max.

General

- Dimensions (L x W)** PCLD-785: 114 x 220 mm (4.5" x 8.7")
PCLD-785B: 132 x 220 mm (5.2" x 8.7")
- Power Consumption** +5 V @ < 100 mA; +12 V @ 33 mA for each relay
- Power Input** 20-pin connector:
+5 V_{DC}: Jumper select either PC bus or external supply
+12 V_{DC}: Jumper select either PC bus or external supply
50-pin connector: external 12 V supply

Ordering Information

- PCLD-785B** 24-ch Relay Output Board, user's manual, 1 m 20-pin flat cable assembly (P/N: PCL-10120-1) and 1.2 m 50-pin flat cable assembly (P/N: PCL-10150-1.2)
- PCLD-785** 16-ch Relay Output Board, user's manual, 1 m 20-pin flat cable assembly (P/N: PCL-10120-1)
- PCL-10120-1** 20-pin flat cable assembly, 1 m
- PCL-10120-2** 20-pin flat cable assembly, 2 m
- PCL-10150-1.2** 50-pin flat cable, 1.2 m (connects the PCL-722 or 724 to the PCLD-885, 782B or 785B)

Features

- Accepts 20-pin or 50-pin (Opto-22 compatible) connectors
- 16 single-pole single-throw (SPST) relays
- High-power relay handles up to 5 A @ 250 V_{AC}
- Onboard varistors protect all relay contact points
- Industrial screw terminals for ease of wiring
- LED On/Off status indication for each relay
- +5 V/+12 V power/status LED indicator

Specifications

Relay

- Breakdown Voltage** 750 V_{AC} for 1 minute, between open contacts
2500 V_{AC} for 1 minute, between coil and contacts
- Contact Rating** AC: 250 V @ 5 A
DC: 30 V @ 5 A
- Contact Resistance** 30 mΩ max.
- Insulation Resistance** 1000 mΩ @ 500 V_{DC}
- Life Expectancy** >100,000 cycles at rated load
- Relay on Time** 6 ms max.
- Relay off Time** 3 ms max.
- Relay Type** SPST (Form A), normally open

Varistor

- Clamping Voltage** 760 V (10 A)
- Max. Peak Current** 1200 A for 8 msec.
- Max. Applied Voltage** 300 V_{RMS} AC continuous
- Varistor Voltage** 470 V (current = 1 mA)

General

- Power Consumption** 12 V @ 22 mA for each relay,
352 mA if all relays energized; 5 V @ 200 mA max.
- Connectors** Input: 20-pin flat cable or 50-pin Opto-22 compatible
Output: Barrier strip screw terminal
- Dimensions (L x W)** 205 x 114 mm (8" x 4.5")
- Operating Temperature** 0 ~ 60° C (32 ~ 140° F)

Ordering Information

- PCLD-885** 16-ch Power Relay Output Board, one 1m 20-pin flat cable assembly (P/N: PCL-10120-1) and a 1.2 m 50-pin flat cable assembly (P/N: PCL-10150-1.2)

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

8
FPM

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AWS

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Plug-in I/O

11
CompactPCI

12
Signal Conditioning

13
USB I/O

14
Motion Control I/O

15
Ethernet Switch

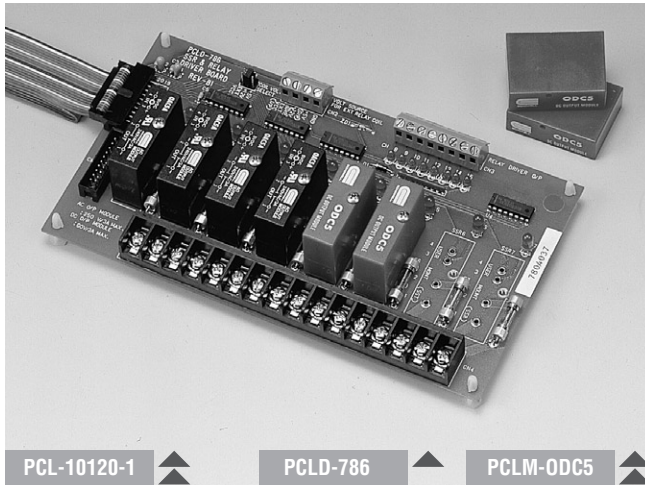
16
EDG

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ICOM

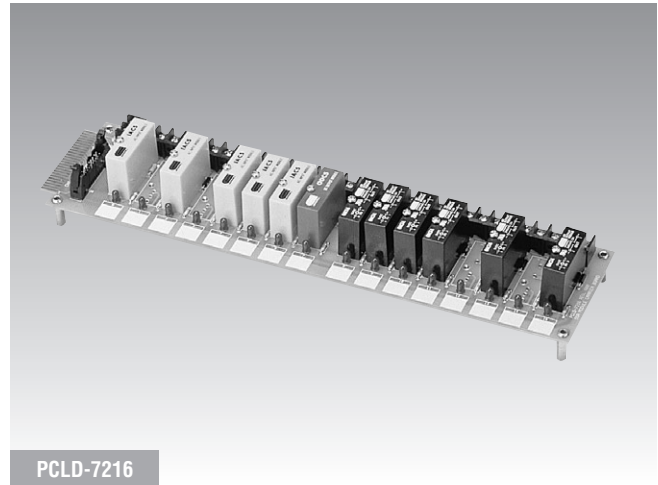
PCLD-786 PCLD-7216

8-ch SSR I/O Module Carrier Board

16-ch SSR I/O Module Carrier Board



PCL-10120-1 ▲ PCLD-786 ▲ PCLM-ODC5 ▲



PCLD-7216

Features

- Up to eight AC or DC solid state relay modules
- Photo-coupler isolated operation
- Eight external relay drivers
- LED status indicators

Specifications

AC Solid State Relays

- 1 Cycle Surge** 40 A
- Blocking Voltage** ± 600 V min.
- OFF Leakage Current** 8 mA max.
- ON-state Voltage** 1.6 V max.
- Output Rating** 24 ~ 280 V_{AC} @ 3.0 A
- Turn On** zero volts
- Turn On/Turn Off Time** < 1/2 cycle
- Type** PCLM-OAC5A

DC Solid State Relays

- 1 Second Surge** 5 A
- OFF Leakage Current** 1 mA max.
- ON-state Voltage** 1.4 V max.
- Output Rating** 5 ~ 60 V_{DC} @ 3.0 A
- Turn On/Turn Off Time** 750 μ s max.
- Type** PCLM-ODC5

External Relay Drivers

- Channels** 8 channels
- Coil Driving Voltage** +5 V, +12 V from PC or external source
- Driver Type** ULN2003, open collector type
- Max. Driving Current** 125 mA each channel

General

- Dimensions (L x W)** 205 x 114 mm (8.1" x 4.5")

Ordering Information

- PCLD-786** 8-ch SSR I/O Module Carrier Board, user's manual and one 1 m 20-pin flat cable assembly (P/N: PCL-10120-1)

Note:

PCLD-786 does not include SSRs. They must be ordered by selecting single piece SSR modules according to your requirements.

- PCLM-OAC5A** Single piece AC SSR module (280 V_{AC}, 3 A)
- PCLM-ODC5** Single piece DC SSR module (60 V_{DC}, 3 A)

Features

- Channel status reflected by onboard LED for easy monitoring
- Optically isolated inputs and outputs between computer and field devices
- Onboard fuse protection

Specifications

Module type		Field side		Logic side
Output modules	Part No.	Output voltage rating	Output current rating	Input logic and SSR status
AC output	PCLM-OAC5A	24 ~ 280 V _{AC}	3.0 A _{AC}	TTL low (On)
		12 ~ 280 V _{AC}		TTL high (Off)
DC output	PCLM-ODC5	5 ~ 60 V _{AC}	3.0 A _C	TTL low (On)
Input modules	Part No.	Input On voltage	Input Off voltage	TTL high (Off)
				Output logic & On/Off status
AC input	PCLM-IAC5	90 ~ 140 V _{AC}	< 45 V _{AC}	TTL low (On)
	PCLM-IAC5A	180 ~ 280 V _{AC}	< 80 V _{AC}	TTL high (Off)
DC input	PCLM-IDC5B	3 ~ 32 V _{AC}	< 1 V _{AC}	TTL low (On)
				TTL high (Off)

Input Modules

- Field Side**
- Input On/Off Voltage Range** IAC5 series: 90 ~ 140 V/45 V_{RMS}
IAC5A series: 180 ~ 280 V/80 V_{RMS}
IDC5B series: 3 ~ 32 V/1 V_{DC}
- Input Resistance** IAC5 series: 14 k Ω , IAC5A series: 44 k Ω ,
IDC5B series: 1.5 k Ω
- Turn on/off Time** IAC5 series: 20 msec. max., IAC5A series: 20 msec. max.
IDC5B series: 100 msec. max.
- Logic Side**
- Breakdown Voltage** 30 V_{DC}
- Output Current** 100 mA max.
- Output Voltage Drop** 0.4 V max.
- Supply Current** 12 mA max.
- Supply Voltage** 4 ~ 6 V

Output Modules

- Field Side**
- Current Rating** 3 A max. (@ 25° C)
- Contact Voltage Drop** 1.6 V max.
- Turn on/off Time** OAC series: 1/2 AC cycle max.
ODC series: 100 μ sec/750 μ sec. max.
- Logic Side**
- Input Resistance** 220 Ω
- Supply Voltage** 4 ~ 6 V
- Supply Current** 12 mA max.

General

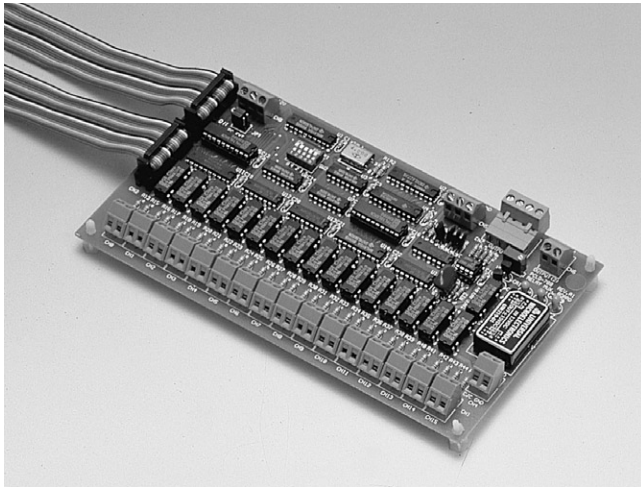
- Logic side connectors: 50-pin edge connector, Opto-22 compatible
- Dimensions (L x W x H): 367 x 111 x 56 mm (14.4" x 4.4" x 2.2")

Ordering Information

- PCLD-7216** 16-ch SSR I/O Module Carrier Board, one 1.2 m, 50-pin flat cable (PCL-10151-1.2), one 1 m 20-pin flat cable (PCL-10120-1) and user's manual

PCLD-788

16-ch Relay Multiplexer Board



CE

Features

- 16 to 1 channel expansion
- Differential and fully isolated multiplexing
- Break-before-make relay control
- "Channel closed" signal for precise A/D triggering
- Up to 16 PCLD-788s can be cascaded for 256 channels
- Easy wiring for large channel count configuration
- Onboard cold-junction circuitry for thermocouple measurement

Introduction

PCLD-788 multiplexes 16 channels into a single I/O channel of an A/D converter, voltmeter or IEEE-488-based instrument. Up to 16 PCLD-788s can be cascaded for a total of 256 fully-isolated differential channels. The PCLD-788 can be controlled by any PC-LabCard™ product via a 16-bit 20-pin digital output port, found on cards such as the PCL-711B, PCL-812PG or the PCL-818 series.

Channel selection (0-15) and board selection (0-15) are done by programming the high-order four bits and low order four bits of a digital output byte from the main I/O card in use.

Specifications

I/O

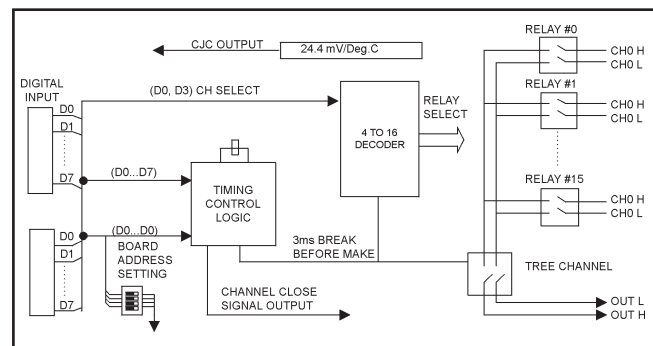
- **Channel Closed Signal** TTL-level pulse
- **Cold-junction Sensor Output** +24.4 mV/°C, 0 V at 0° C
- **Contact Rating** Break-before-make with 3 msec. minimum break time
- **Contact Resistance** 200 Ω max.
- **Input Channels** 16 isolated differential inputs
- **Programming** D/O bit 0, 1, 2 and 3 for channel selection, D/O bit 4, 5, 6 and 7 for board selection. Onboard DIP switches for board-address setting
- **Max. Input Voltage** 100 V_{DC} or 100 V peak AC
- **Max. Switching Current** 0.5 A
- **Max. Switching Power** 10 W
- **Operating Time** 1 msec. max.
- **Relay Life Expectancy** 100 million cycles min. at 10 V_{DC} and 1 mA
- **Release Time** 1 msec. max.

General

- **Certifications** CE
- **Connectors**
 - Controller: 2 x 20-pin flat-cable connectors, second connector in parallel for daisy chaining
 - I/O: Screw terminals
- **Dimensions (L x W)** 205 x 114 mm (8" x 4.5")
- **Mounting** 4 x screw holes for flat surface mounting
- **Power Consumption** +5 V @ 380 mA max.

Ordering Information

- **PCLD-788** 16-ch Relay Multiplexer Board, user's manual and two 1 meter 20-pin flat cables (P/N: PCL-10120-1)



PCLD-788 Block Diagram

Pin Assignments

CN2 & CN3			
C0	1	2	C1
C2	3	4	C3
C4	5	6	C5
C6	7	8	C7
	9	10	
	11	12	
	13	14	
	15	16	
GND	17	18	GND
+5V	19	20	+12V

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

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Plug-in I/O

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CompactPCI

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Signal Conditioning

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Motion Control I/O

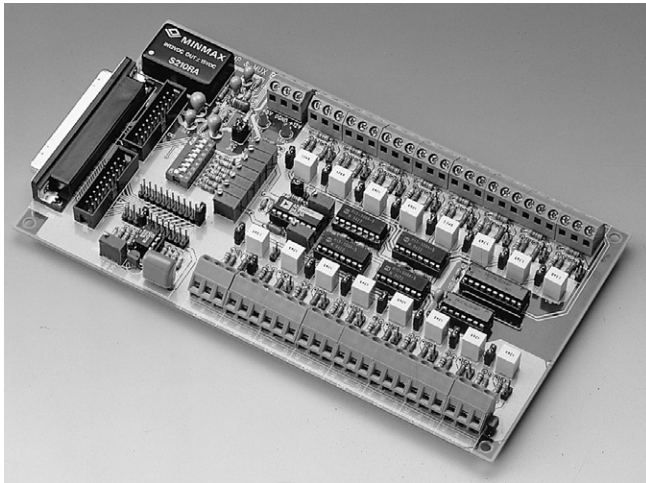
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Ethernet Switch

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EDG

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PCLD-789D

Amplifier and Multiplexer Board



CE

Features

- Multiplexes 16 differential inputs to one A/D input
- Expands a PC-LabCard™ product's analog inputs to 128 channels
- High-grade instrumentation amplifier provides switch selectable gains of 1, 2, 10, 50, 100, 200, 1,000
- Onboard cold-junction compensation circuits for direct thermocouple measurement
- Built-in signal conditioning functions include filter, attenuator and current shunt
- Second connectors onboard allow daisy chaining
- Screw-clamp terminal blocks permit easy and reliable connections

Introduction

PCLD-789D is a front-end signal conditioning and channel multiplexing daughterboard for use with PC-LabCard™ product's analog input ports. It multiplexes 16 differential input channels into a single A/D converter input channel. You can cascade up to ten PCLD-789Ds, allowing a single data acquisition card to access 160 analog input channels.

PCLD-789D has DB37 and 20-pin flat cable connectors and lets your PCL-818L or PCL-818HD access up to 128 channels without using an additional digital output cable to select channels.

The PCLD-789D uses a high-grade instrumentation amplifier that provides switch-selectable gains of 1, 2, 10, 50, 100, 200 and 1,000. This amplifier lets you accurately measure low-level signals with your PC-LabCard™ product. The board also contains a cold-junction sensing circuit that allows direct temperature measurement from thermocouple transducers. A wide variety of thermocouples are supported with software compensation and linearization.

Specifications

I/O

- **Cold-Junction Compensation** +24.4 mV/°C, 0 V at 0° C
- **Input Channels** 16 differential
- **Input Conditions**

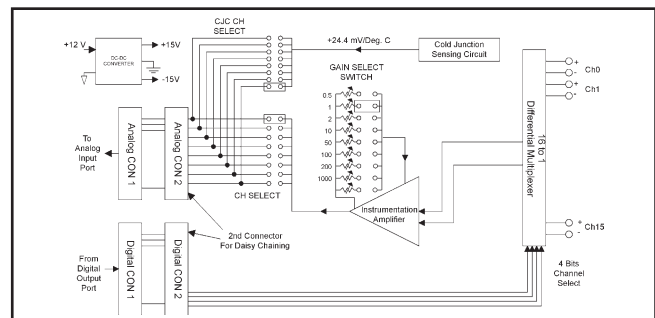
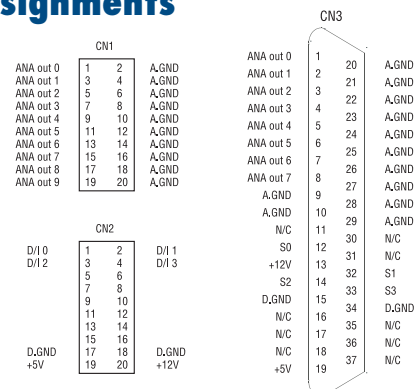
Gains	CMRR	Nonlinearity	Setting Time
1,000	125 dB	0.005% FSR	75 μ sec.
100	115 dB	0.005% FSR	15 μ sec.
10	105 dB	0.007% FSR	15 μ sec.
1	85 dB	0.015% FSR	15 μ sec.

- **Input Range** ± 10 V maximum, depending on the selected gain
- **Output Range** ± 10 V maximum
- **Overvoltage Protection** ± 30 V continuous

General

- **Certifications** CE
- **Connectors**
Controller: 1 x DB37 (male) connector
2 x 20-pin flat cable connectors for daisy chaining
Screw terminals
- **Dimensions (L x W)** 205 x 114 mm (8.1" x 4.5")
- **Mounting** 4 x screw holes for flat surface mounting
- **Power Consumption** +5 V @ 30 mA max, +12 V @ 80 mA max

Pin Assignments



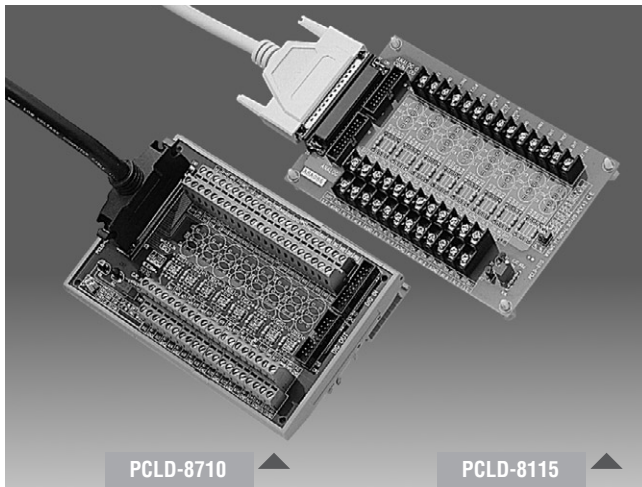
Block Diagram

Ordering Information

- **PCLD-789D** Amplifier and Multiplexer Board with DB37 connector and 20-pin flat-cable connectors. (Includes DB37 and 20-pin flat cable assemblies)

PCLD-8115 PCLD-8710

Industrial Wiring Terminal Board With CJC Circuit



Features

- Low-cost screw-terminal boards
- Onboard CJC (Cold Junction Compensation) circuits for direct thermocouple measurement.
- Reserved space for signal-conditioning circuits such as low-pass filter, voltage attenuator and current shunt.
- Industrial-grade screw-clamp terminal blocks for heavy-duty and reliable connections.
- PCLD-8115 only
- Supports PCL-818 series multifunction cards
- Nylon standoffs, screws and washers included for easy mounting
- Dimensions (W x L): 169 x 112 mm (6.7" x 4.4")
- PCLD-8710 only
- Supports PCI-1710/1710L/1710HG/1710HGL/1711/1711L/1716/1716L cards
- DIN-rail mounting case for easy mounting
- Dimensions (W x L x H): 169 x 112 x 51 mm (6.7" x 4.4" x 2.0")

Introduction

The PCLD-8115 screw-terminal board offers convenient and reliable signal wiring for multifunction cards with 20-pin flat cable connectors or DB37 connectors, such as the PCL-818 series cards. PCLD-8710 is designed to match multifunction cards with 68-pin SCSI-II connectors, such as the PCI-1710/1710L/1710HG/1710HGL/1711/1711L/1716/1716L cards.

This screw-terminal board also includes cold junction sensing circuitry that allows direct measurements from thermocouple transducers. Together with software compensation and linearization, every thermocouple type can be accommodated.

Due to its special PCB layout, you can install passive components to construct your own signal-conditioning circuits. So you can easily construct a low-pass filter, attenuator or current shunt converter by adding resistors and capacitors onto the board circuit pads.

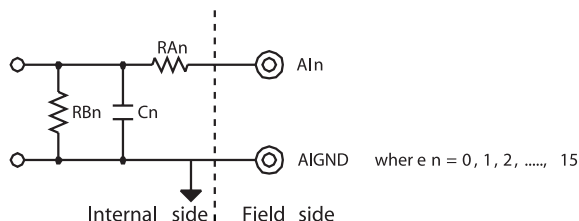
Applications

Field wiring for analog and digital I/O channels of PC-LabCard™ products.

Signal conditioning circuits can be implemented as illustrated in the following examples:

a) Straight-through connection (factory setting)

$R_{An} = 0 \Omega$ (short)
 $R_{Bn} = \text{none}$
 $C_n = \text{none}$



b) 1.6 kHz (3 dB) low pass filter

$R_{An} = 10 \text{ K}\Omega$
 $R_{Bn} = \text{none}$
 $C_n = 0.01 \mu\text{F}$

$$f_{3dB} = \frac{R_{Bn}}{R_{An} + R_{Bn}}$$

c) 10 : 1 voltage attenuator:

$R_{An} = 9 \text{ K}\Omega$
 $R_{Bn} = 1 \text{ K}\Omega$
 $C_n = \text{none}$
 $\text{Attenuation} = \frac{R_{Bn}}{R_{An} + R_{Bn}}$

(Assume source impedance $\ll 10 \text{ K}\Omega$)

d) 4 ~ 20 mA to 1 ~ 5 V_{DC} signal converter:

$R_{An} = 0 \Omega$ (short)
 $R_{Bn} = 250 \Omega$ (0.1% precision resistor)
 $C_n = \text{none}$

Ordering Information

- **PCLD-8115** Industrial Wiring Terminal Board with CJC circuit and DB37 cable assembly
- **PCLD-8710** Industrial Wiring Terminal Board with CJC circuit for DIN-rail mounting (cable not included)
- **PCL-10137-1** DB37 cable assembly, 1 m
- **PCL-10137-2** DB37 cable assembly, 2 m
- **PCL-10137-3** DB37 cable assembly, 3 m
- **PCL-10168-1** 68-pin SCSI-II cable with special shielding for noise reduction, 1 m
- **PCL-10168-2** 68-pin SCSI-II cable with special shielding for noise reduction, 2 m

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

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IPPC

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FPM

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AWS

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Plug-in I/O

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CompactPCI

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Signal Conditioning

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USB I/O

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Motion Control I/O

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Ethernet Switch

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EDG

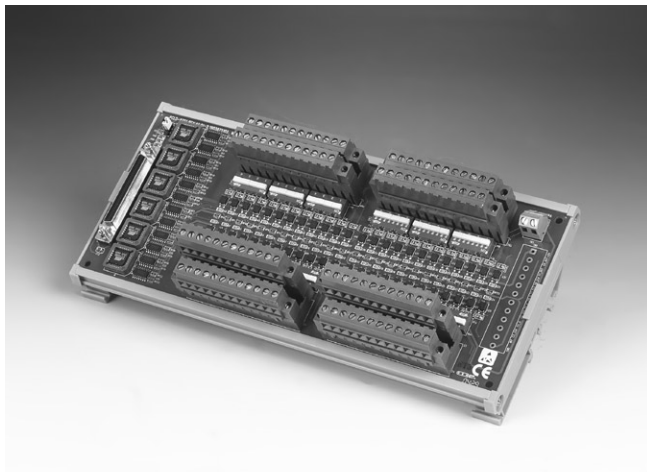
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PCLD-8751

PCLD-8761

48-ch Opto-Isolated Digital Input Board

24-ch Opto-Isolated DI and 24-ch Relay Output Board



PCLD-8751



Features

- 48 optically-isolated digital input channels
- Built-in plug-in screw terminals for easier wiring
- LEDs indicate input logic status
- Input buffered with voltage comparators
- Wet/Dry contact set by DIP switches
- Input logic set by jumper
- Wide input range from 5 to 30 V

Specifications

Digital Input

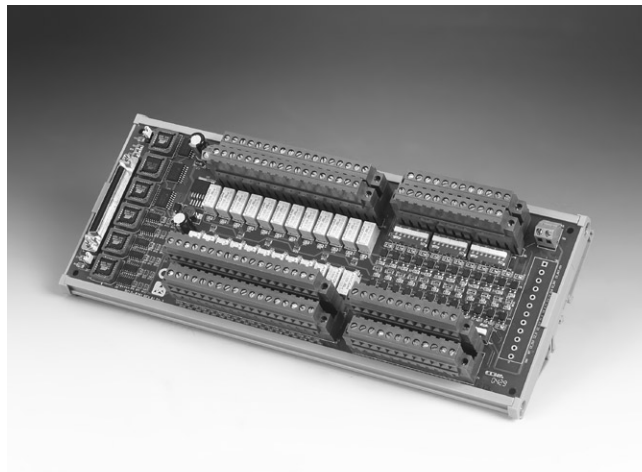
- **Channels** 48 isolated digital inputs
- **Contact Mode** Wet contact
Dry contact (set by switch)
- **Isolation Voltage** 3500 V
- **Logic Modes** Positive Logic
Negative Logic (set by jumper)
- **Signal Voltage** 0 ~ 30 V
VIH (MIN) : 4 V, VIL (MAX) : 1 V

General

- **Certifications** CE
- **Connectors** Controller: SCSI-68 male
Digital Input: Plug-in screw terminals: (#14 ~ 24 AWG)
- **Dimensions** 255 x 121 mm
- **LED Indicators** One for each channel to indicate logic status
- **Mounting** DIN-rail

Ordering Information

- **PCLD-8751** 48-ch Opto-isolated Digital Input Board



PCLD-8761



Features

- Built-in plug-in screw terminals for easier wiring
- LED status indicators for D/I and relay output
- Digital inputs buffered with voltage comparators
- Wet/Dry contact set by DIP switches for D/I
- Wide input range from 5 to 30 V
- INT/EXT Power selection by jumper

Specifications

Digital Input

- **Channels** 24 IDI with LED and 24 Relay (SPDT) Form C with LED
- **Contact Mode** Wet contact and dry contact for each IDI (set by switch)
- **Digital Input** 0 ~ 30 V VIH (MIN) : 4 V, VIL (MAX) : 1 V
- **Isolation Voltage** 3,500 V (Isolated DI), 1,500V (Relay)
- **Logic Mode** Positive Logic Negative Logic (set by jumper)
(IDI and Relay are independent)

Relay Output

- **Contact Rating** 30 V_{DC} @ 1 A, 120 V_{AC} @ 0.5 A
- **Contact Resistance** < 100 ohm
- **Electrical Endurance** 5*10⁷ times at 12 V/10 mA
- **Mechanical Endurance** 108 times
- **Operation Time** 5 ms Max
- **Release Time** 6 ms Max

General

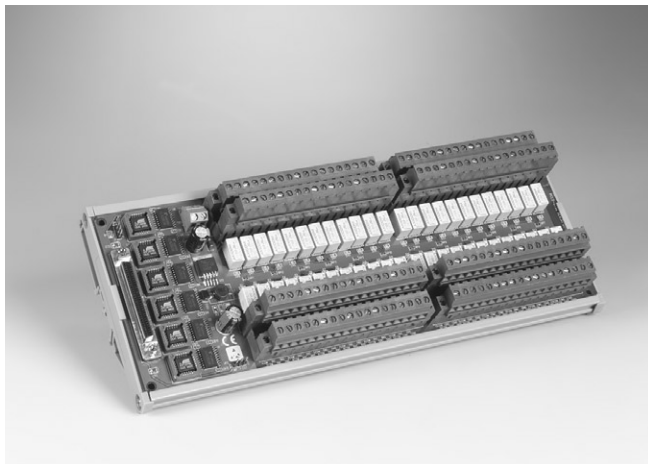
- **Certifications** CE
- **Connectors** Controller: SCSI-68 male
Digital Input: Plug-in screw terminals: (#14 ~ 24 AWG)
- **Dimensions** 285 x 121 mm
- **Mounting** DIN 35 rail
- **Power Consumption** +5 V @ < 380 mA +50*n (mA)
+12 V @ < 240 mA +70*n (mA)
(*n indicate the number of relays)
- **Power Selection** PCI Bus or External power(7 ~ 30 V) by jumper

Ordering Information

- **PCLD-8761** 24-ch Opto-isolated DI and 24-Channel Relay (SPDT) Output Board

PCLD-8762

48-ch Relay Output Board



Features

- Built-in plug-in screw terminals for easier wiring
- LED status indicators for Relay output
- DIN-rail mounting
- Onboard relay driver circuits

Specifications

Relay Output

- **Contact Rating** 30 V_{DC} @ 1 A, 120 V_{AC} @ 0.5 A
- **Contact Resistance** < 100 ohm
- **Electrical Endurance** 5*10⁴ times at 12 V/10 mA
- **Mechanical Endurance** 108 times
- **Operation Time** 5 ms Max
- **Release Time** 6 ms Max

General

- **Certifications** CE
- **Connectors**
Controller: SCSI-68 (male)
Digital Input: Plug-in screw terminals: (#14 ~ 24 AWG)
- **Dimensions** 285 x 117 mm
- **Mounting** DIN-rail
- **Power Input** Unregulated 7 ~ 30 V_{DC}
- **Power Consumption** 7 V @ 1.8 A, 30 V @ 0.45 A
(External power supply is required)

Ordering Information

- **PCLD-8762** 48-ch Relay (SPDT) Output Board

- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPPC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

ADAM-3900 Series

Wiring Terminals for DIN-rail Mounting



ADAM-3909

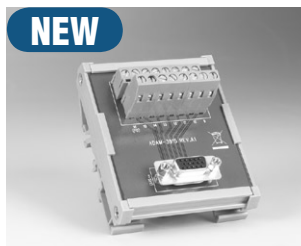
DB9 Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for PC-LabCard™ products with DB9 connector.
- Case dimensions (W x L x H): 77.5 x 45 x 51 mm (3.1" x 1.8" x 2.0")

To Be Used With

PCL-728, PCL-740, PCL-741, PCL-743B, PCL-745B, PCL-832



NEW

ADAM-3915

DB15 Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for AMONet cards with DB15 female connector.
- Case dimensions (W x L x H): 77.5 x 68 x 51 mm (3.1" x 2.7" x 2.0")

To Be Used With

PCI-1202



ADAM-3920

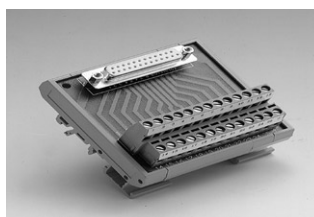
20-pin Flat Cable Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for PC-LabCard products with 20-pin connector
- Case dimensions (W x L x H): 77.5 x 67.5 x 51 mm (3.1" x 2.7" x 2.0")

To Be Used With

PCI-1735U, PCL-711B/S, PCL-720+, PCL-726, PCL-727, PCL-730, PCL-812PG, PCL-816, PCL-818 Series, PCL-836



ADAM-3925

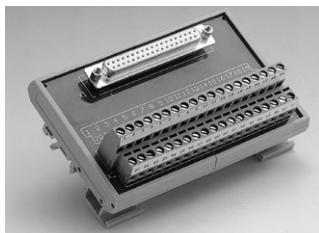
DB25 Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for PC-LabCard products with DB25 connector
- Screw-clamp terminal blocks allow easy and reliable connections
- Case dimensions (W x L x H): 77.5 x 56.3 x 51 mm (3.1" x 2.2" x 2.0")

To Be Used With

PCL-725, PCL-740, PCL-746+, PCL-833



ADAM-3937

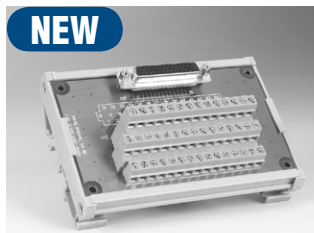
DB37 Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for DA&C cards with DB37 female connector
- Case dimensions (W x L x H): 77.5 x 146.3 x 51 mm (3.1" x 5.8" x 2.0")

To Be Used With

PCI-1713, PCI-1715U, PCI-1718H DU/1718H GU, PCI-1720U, PCI-1727U, PCI-1730, PCI-1733, PCI-1734, PCI-1750, PCI-1760, PCI-1761



NEW

ADAM-3944

DB44 Wiring Terminal for DIN-rail Mounting

Features

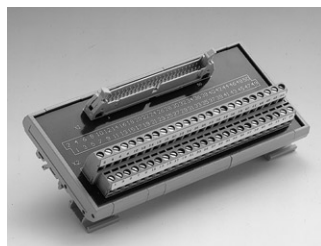
- Low cost universal DIN-rail mounting screw terminal module for DA&C cards with DB44 female connector.
- Case dimensions (W x L x H): 77.5 x 203 x 51 mm (3.1" x 8" x 2.0")

To Be Used With

PCI-1736UP, PCI-1763UP

ADAM-3900 Series

Wiring Terminals for
DIN-rail Mounting



ADAM-3950

50-pin Flat Cable Wiring
Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for PC-LabCard™ products with 50-pin flat cable connector.
- Case dimensions (W x L x H): 77.5 x 146.3 x 51 mm (3.1" x 5.8" x 2.0")

To Be Used With

USB-4751/4751L, PCI-1737U, PCI-1739U, PCL-722, PCL-724, PCL-731



ADAM-3950D

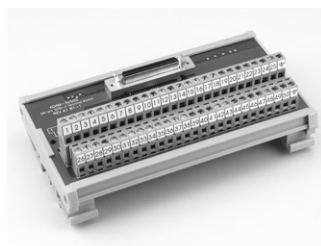
Dual 50-pin SCSI-II Wiring
Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for industrial applications with dual 50-pin SCSI-II female connectors
- Case dimensions (W x L x H): 77.5 x 179.5 x 51 mm (3.1" x 7.1" x 2.0")

To Be Used With

PCI-1240U, PCI-1752U, PCI-1752USo, PCI-1754, PCI-1756



ADAM-3950S

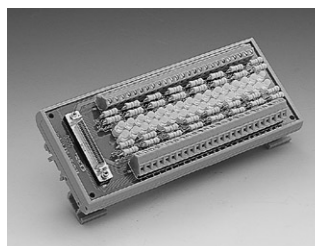
50-pin SCSI-II Wiring Terminal
for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for industrial applications with 50-pin SCSI-II female connector
- Case dimensions (W x L x H): 77.5 x 146.3 x 51 mm (3.1" x 5.8" x 2.0")

To Be Used With

PCI-1752U, PCI-1752USO, PCI-1754, PCI-1756



ADAM-3951

Wiring Terminal Module with
LED indicators for DIN-rail
Mounting

Features

- Low-cost DIN-rail mounting wiring terminal module for PCI-1752/1754/1756 with 50-pin SCSI-II female connector.
- Screw-clamp terminal blocks allow easy and reliable connections.
- Each LED indicates its current bi-directional I/O logic status with either green or red light.
- Case dimensions (W x L x H): 77.5 x 179.5 x 41.5 mm (3.1" x 7.1" x 1.6")

To Be Used With

PCI-1752U, PCI-1752USO, PCI-1754, PCI-1756

1

PAC & Software

2

BAS

3

UNO

4

RS-485 I/O

5

Ethernet I/O

6

TPC

7

IPPC

8

FPM

9

AWS

10

Plug-in I/O

11

CompactPCI

12

Signal Conditioning

13

USB I/O

14

Motion Control I/O

15

Ethernet Switch

16

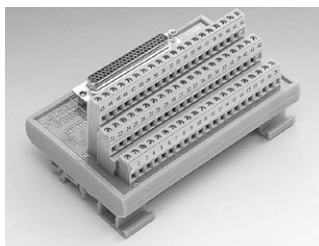
EDG

17

ICOM

ADAM-3900 Series

Wiring Terminals for DIN-rail Mounting



ADAM-3962

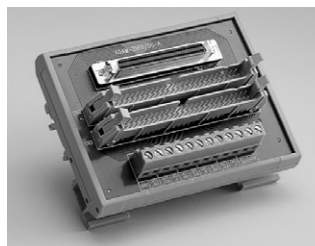
DB62 Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for DA&C cards with DB62 female connector
- Screw-clamp terminal blocks allow easy and reliable connections
- Case dimensions (W x L x H): 77.5 x 124.5 x 63.5 mm (3.1" x 4.9" x 2.5")

To Be Used With

PCI-1243U, PCI-1762



ADAM-3968/50

68-pin SCSI-II to Two 50-pin Box Header for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for PC-LabCard™ products with 68-pin SCSI-II connectors
- Converts one 68-pin SCSI-II connector to two 50-pin Opto-22 compatible box headers
- Case dimensions (W x L x H): 77.0 x 101.0 x 54.3 mm (3.0" x 4.0" x 2.1")

To Be Used With

PCI-1751, PCI-1753, PCI-1753E



ADAM-3968

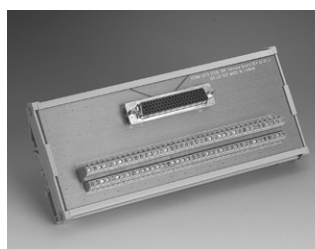
68-pin SCSI-II Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for industrial applications with 68-pin SCSI-II female connector
- Case dimensions (W x L x H): 77.5 x 191.2 x 51 mm (3.1" x 8.4" x 2.0")

To Be Used With

PCI-1710/1710L, PCI-1710HG/1710HGL, PCI-1711/1711L, PCI-1712/1712L, PCI-1716/1716L, PCI-1741U, PCI-1742U, PCI-1747U, PCI-1721, PCI-1723, PCI-1751, PCI-1753/1753E, PCI-1723, PCI-1780U



ADAM-3978

DB78 Wiring Terminal for DIN-rail Mounting

Features

- Mounting Low cost universal DIN-rail mounting screw terminal module for industrial applications with DB78 female connector
- Case dimensions (W x L x H): 86 x 191 x 42 mm (3.39" x 7.51" x 1.65")

To Be Used With

MIC-3753, PCI-1756



ADAM-3968/20

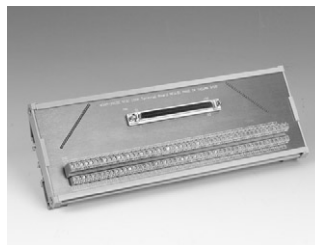
68-pin SCSI-II to Three 20-pin Wiring Terminal Module for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for PC-LabCard™ products with 68-pin SCSI-II connectors
- Converts one 68-pin SCSI-II connector to three 20-pin connectors
- Case dimensions (W x L x H): 77.5 x 80 x 54.3 mm (3.1" x 3.2" x 2.1")

To Be Used With

PCI-1751, PCI-1753, PCI-1753E



ADAM-39100

100-pin SCSI-II Wiring Terminal for DIN-rail Mounting

Features

- Low cost universal DIN-rail mounting screw terminal module for industrial applications with 100 pin SCSI-II female connector
- Case dimensions (W x L x H): 80 x 230 x 42 mm (3.14" x 9.05" x 1.65")

To Be Used With

PCI-1755

Cable Accessories



PCL-1010B-1
BNC to BNC Cable, Male, 1 m



PCL-101100-1
SCSI Cable 100P Male 1m w/ Bolt Screw



PCL-10120-1
20-Pin Flat Cable, 1 m



PCL-10121-1
20-Pin Shielded Cable, 1 m



PCL-10125-1
DB25 Cable Assembly, 1 m



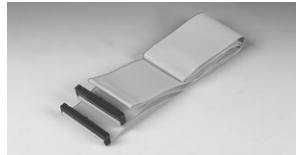
PCL-10137-1
DB37 Cable Assembly, 1 m



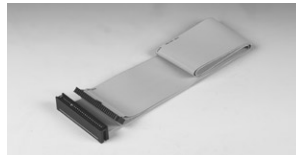
PCL-10137H-1
High-speed DB37 Cable Assembly, 1 m



PCL-10137H-3
High-speed DB37 Cable Assembly, 3 m



PCL-10150-1.2
50-Pin Flat Cable, 1.2 m



PCL-10151-1.2
50-Pin Flat Cable Assembly with Edge 1.2 m



PCL-10162-1
DB62 Cable Assembly, 1 m



PCL-10162-3
DB62 Cable Assembly, 3 m



PCL-10168
68-Pin SCSI Cable, 1 m



PCL-10168-2
68-Pin SCSI Cable, 2 m



PCL-10250
100-Pin SCSI to Two 50-Pin SCSI Cable, 1 m



PCL-10250-2
100-Pin SCSI to Two 50-Pin SCSI Cable, 2 m



PCL-10251-1
100-Pin to Two 50-Pin SCSI Cable for PCI-1240, 1 m



PCL-12250-1
100-Pin to Two 50-Pin Flat Cable for PCM-3240, 1 m



PCL-10268
100-Pin to Two 68-Pin SCSI Cable, 1 m



PCL-10268-2
100-Pin to Two 68-Pin SCSI Cable, 2 m



PCL-10901-1
DB9 to PS/2 Cable Assembly with Shielding, 1 m

1
PAC & Software

2
BAS

3
UNO

4
RS-485 I/O

5
Ethernet I/O

6
TPC

7
IPPC

8
FPM

9
AWS

10
Plug-in I/O

11
CompactPCI

12
Signal Conditioning

13
USB I/O

14
Motion Control I/O

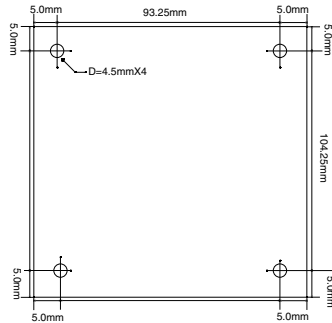
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Ethernet Switch

16
EDG

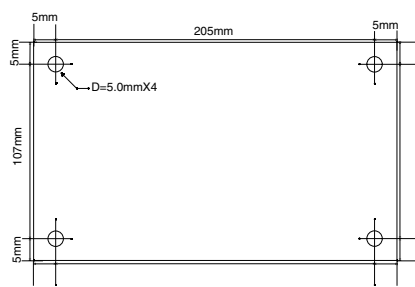
17
ICOM

Terminal Board Dimensions

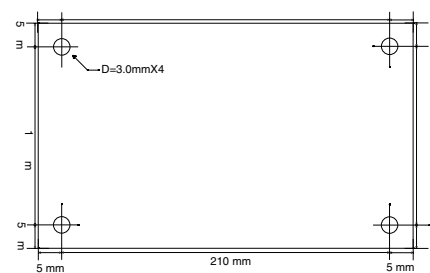
PCLD-780



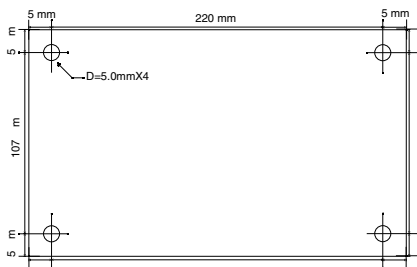
PCLD-782



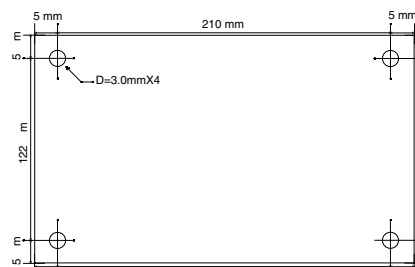
PCLD-782B



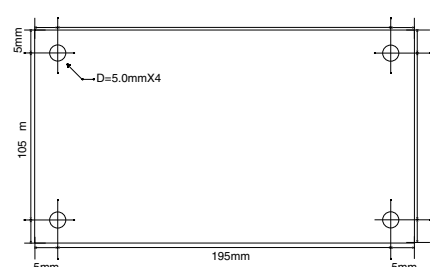
PCLD-785



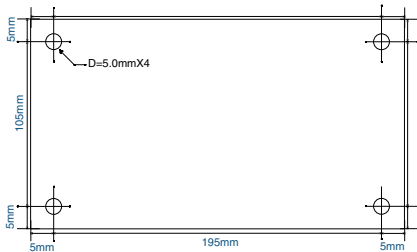
PCLD-785B



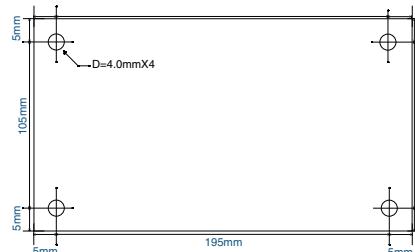
PCLD-786



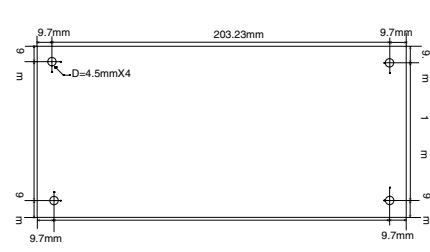
PCLD-788



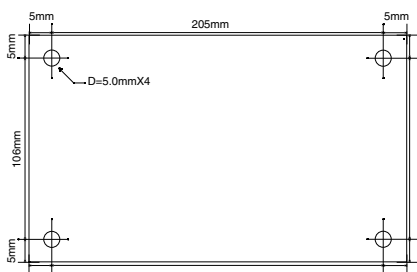
PCLD-789D



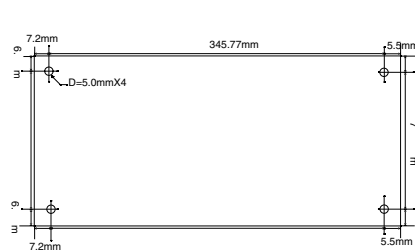
PCLD-880



PCLD-885



PCLD-7216



PCLD-8115

