# Wiring Termination



\* All specifications are subject to change without further notice. w

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# DIN-96DI 96-CH Isolated DI Termination Board with DIN-Rail Mounting

#### Features

**Specifications** Isolated Digital Input

Digital logic levels

• 0-24 V, non-polarity

• Number of channels: 96

Maximum input range: 24 V

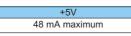
\* Input high voltage: 10-24 V

I/O connector: 100-pin SCSI-II female

\* Input low voltage: 0-2 V Input Resistance: 4.7 kΩ @ 0.5W Isolation voltage: 2500 VRMs

- 96-CH isolated digital inputs
- For use with PCI-7396
- Isolated input voltage up to 24 V
- 2500 VRMs optical isolation
- Screw terminals for easy field wiring

- Operating temperature: 0 to 60 °C
  - Storage temperature: -20 to 80 °C
  - Relative humidity: 5 to 95%, noncondensing
  - Power consumption



Dimensions: 226 mm x 121 mm x 48 mm (WxLxH)

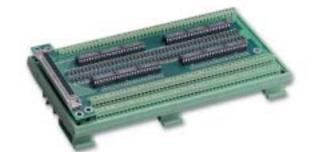
#### **Ordering Information**

DIN-96DI 96-CH Isolated DI Termination Board with DIN-Rail Mounting (Including One 1-meter ACL-102100 Cable)

# DIN-96DO 96-CH Isolated DO Termination Board with DIN-Rail Mounting

#### Features

- 96-CH isolated digital outputs
   For use with PCI-7396
- Sink current up to 500 mA on each isolated output
- 2500 VRMS optical isolation
- Screw terminals for easy field wiring



### **Specifications**

- Number of channels: 96
- Output type: open collector Darlington transistor Sink current
- · Max. 500 mA for only one Darlington pair
- 500 mA for all Darlington pair @ 20% duty Power dissipation: Max. 2.25 W per chip (8 DO
- channels)
- Supply voltage: 5-35 VDC
- Isolation voltage: 2500 VRMS

- Connector: 100-pin SCSI-II female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing Power consumption

+5V
102 mA maximum
Dimonsions: 226 mm x 121 mm x 48

Dimensions: 226 mm x 121 mm x 48 mm (WxLxH)

#### **Ordering Information**

DIN-96DO 96-CH Isolated DO Termination Board with DIN-Rail Mounting (Including One 1-meter ACL-102100 Cable)

# DIN-24R/TB-24R Termination Board with 24 Relay Outputs

#### Features

- 24-CH single-pole, double-throw (SPDT form C) relay outputs
   50-pin Opto-22™ compatible connector
- Maximum switching voltage 220 Vpc/250 Vac Maximum switching current up to 2 Abc/Ac
- LED indicator for relay status
- On-board relay driver circuitry
- Screw terminals for easy filed wiring
- DIN socket available on DIN-24R
- 50-pin SCSI-type connector available on DIN-24R to interface with ND-6058

DIN-24P/TB-24P

Jumper selectable for voltage input or dry-contact input mode

50-pin SCSI-type connector available on DIN-24P to interface

#### Introduction

The DIN-24R and TB-24R relay output boards are designed for industrial control applications. It contains 24 electro-mechanical SPDT relays that can be driven by the 24-bit digital output ports of the PCI-7224, PCI-7248, PCI-7296, ACL-7112, ACL-7124 and PET-48DIO, ND-6058.

Each relay's switching capacity is 60 W, 125 VA. The normally closed, and common contacts for each relay are made available for maximum flexibility.

#### Specification

#### Relay Output

- Number of channels: 24
- Relay type: SPDT (Form C)
- · Contact rating

**Features** 

- AC: 125 VAC @ 0.6 A
- DC: 30 VDC @ 2 A
- Breakdown voltage: 1500 VRMs

24-CH opto-isolated digital inputs 50-pin Opto-22 compatible connector Non-polarity digital input range Isolated input voltage up to 24 V

5000 VRMs optical isolation

LED indicator for input status Screw terminals for easy field wiring

DIN socket is available on DIN-24P

- Contact resistance: 50 mΩ
- Relay ON/OFF time
- · Operate time: 3 ms
- Release time: 3 ms

DIN-24R

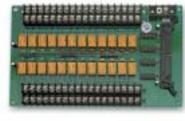
- · LED Indicators for relay status: per channel
- Expected life: 5 x 10<sup>5</sup> operations @ 2 A, 30 Vpc External coil excitation voltage
- 12 V nominal, 19.2 V maximum (TB-24R/12 & DIN-24R/12)
- 24 V nominal, 38.5 V maximum (TB-24R/24 & DIN-24R/24)
- I/O Connector
- 50-pin ribbon male
- 50-pin SCSI-II female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing Power consumption

	+12 V	+24 V		
TB-24R/12	288 mA maximum			
DIN-24R/12				
TB-24R/24		144 mA maximum		
DIN-24R/24				

Dimensions

Termination Board with 24 Opto-Isolated Digital Inputs

• TB-24R: 220 mm x 132 mm x 15 mm (WxLxH) • DIN-24R: 203 mm x 120 mm x 55 mm (WxLxH)



**Ordering Information** 

Termination Board with 24-CH Relay Outputs @ 12V Coil Voltage (Including One 1.5-meter

@ 24V Coil Voltage (Including One 1.5-meter

@ 12V Coil Voltage and DIN-Rail Mounting (Including One 1.5-meter ACL-10150 Cable)

@ 24V Coil Voltage and DIN-Rail Mounting (Including One 1.5-meter ACL-10150 Cable)

TB-24R

TB-24R/12

TB-24R/24

DIN-24R/24

ACL-10150 Cable)

ACL-10150 Cable) **DIN-24R/12** 



### Specification

with ND-6058

Introduction

Input modes (jumper selectable on per channel basis)

The DIN-24P and TB-24P digital input termination

boards feature high-voltage opto-isolation on all

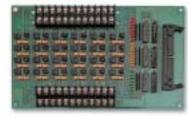
input channels. They provides 24 channels that

are accessed through a single 50-pin connector,

standard on the NuDAQ digital I/O boards, such

as ACL-7122, ACL-7124, PET-48DIO, PCI-7224, PCI-7248, PCI-7296 and ND-6058.

- Voltage input
- · Dry contact input
- Isolated digital input
- · Number of channels: 24, maximum



TB-24P

Power requirement:

+5\ 40 mA maximum

Dimensions

• TB-24P: 220 mm x 132 mm x 23 mm (WxLxH)

• DIN-24P: 259 mm x 121 mm x 55 mm (WxLxH)

### Ordering Information

TB-24P/24

Termination Board with 24-CH Isolated Digital Inputs (Including One 1.5-meter ACL-10150

- Cable)

Termination Board with 24-CH Isolated Digital Inputs and DIN-Rail Mounting (Including One 1.5-meter ACL-10150 Cable)

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### DIN-24P

- 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:1.2 kΩ @ 0.5 W

Internal pull-up voltage supply: +5 VDC

Relative humidity: 5 to 95%, noncondensing

LED Indicators for input status: one per channel

Isolation voltage: 5000 VRMs

Number of channels: 24

Dry contact input

I/O Connector

50-pin ribbon male

• 50-pin SCSI-II female

Operating temperature: 0 to 60 °C

Storage temperature: -20 to 80 °C

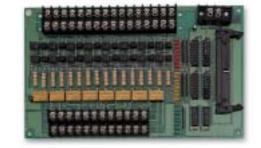
# -**TB-16P8R** Termination Board with 16-CH Isolated DI & 8-CH Relay Outputs

#### **Features**

- 16-CH isolated digital inputs
- Non-polarity digital input range
- Isolated input voltage up to 24 V
   5000 VRMs optical isolation
- Jumper selectable for voltage input or dry-contact input mode
- 8-CH single-pole double-throw (SPDT form C)
- relays
- Maximum switching voltage 220 Vbc/250 Vac
- Maximum switching current up to 2 ADC/AC
- On-board relay driver circuitry
- LED indicators for both input and relay status
   Screw terminals for easy field wiring

#### **Specifications**

- Number of isolated DI channels: 16
- Number of relay output channels: 8
- LED Indicators for input and output status: one per channel
- Electronics characteristics of isolated DI: refer to the TB-24P's specifications
- Electronics characteristics of relay outputs: refer to the TB-24R's specifications



100 mA maximum

- I/O Connector: 50-pin ribbon male
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing

Dimensions: 220 mm x 132 mm x 22 mm(WxLxH)

Power requirements

40 mA maximum

+5\

TB-16P8R/12

TB-16P8R/24
 Termination Board with 16-CH Isolated DI &
 &-CH Relay Outputs (Including One 1.5 meter ACL-10150 Cable)

Ordering Information

Termination Board with 16-CH Isolated DI &

### -**TB-24** General Purpose Termination Board for DB-37 and Opto-22 Connectors

### Features

- Easy connection to boards with 50-pin mating connector or 37-pin D-sub connector
- Breadboard area for custom circuit
- Two 37-pin male D-sub connectors
- Two 50-pin male mating connectors
- Screw terminals for easy field wiring
- Breadboard area: 125 mm x 73 mm
- Dimensions: 220 mm x 132 mm x 13 mm (WxLxH)

#### Ordering Information

■ TB-24

General-Purpose Termination Board with Two 37-pin D-sub Connectors and Two 50pin Ribbon Connectors (Including One 1.5meter ACL-10150 Cable)



# -**DIN-24G** Termination Board for 24-CH Grayhill I/O Modules

#### Features

- Supports standard or miniature G5 size modules
   Termination board for installing Grayhill I/O
- modules
- Up to 24 modules
- Port configurable as input or output on 8-CH basis
   Dimensions: 371 mm x 126 mm x 49 mm (WxLxH)

#### Ordering Information

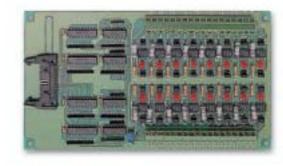
DIN-24G
 Termination Board with 24-CH Grayhill I/O
 Modules and DIN-Rail Mounting



# ACLD-9182A Termination Board with 16-CH Isolated Digital Inputs

#### **Features**

- 16-CH opto-isolated digital inputs
- For use with 20-pin ribbon digital input connector of NuDAQ cards Non-polarity digital input range
- Isolated input voltage up to 24 V
- 5000 VRMs optical isolation
- Jumper selectable for voltage input or dry-contact input mode
- LED indicator for input status
- Screw terminals for easy field wiring



### **Specifications**

- Isolated Digital Input
- Number of channels: 16
- · Maximum input range: 24 V, non-polarity
- Digital logic levels
- 0-24V, non-polarity
- \* Input high voltage: 5-24 V
- ♦ Input low voltage: 0-0.7 V

- Input Resistance: 560 Ω @ 1 W
- Isolation voltage: 5000 VRMs
- I/O Connector: 20-pin ribbon male
- Operating temperature: 0 to 60 °C Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Dimensions: 205 mm x 114 mm

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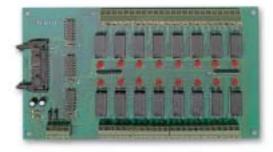
ACLD-9182A

Termination Board with 16-CH Isolated Digital Inputs (Including One 1-meter ACL-10120 Cable)

# ACLD-9185 Termination Board with 16-CH Relay Outputs

#### **Features**

- 16-CH single-pole, double-throw (SPDT form C) relay outputs
- For use with 20-pin digital input connector of NuDAQ cards
- Maximum switching voltage up to 60 Vpc/120 Vac
- Maximum switching current up to 1 Abc/Ac
- On-board relay driver circuitry
- LED indicators for relay status
- Screw terminals for easy field wiring



### **Specifications**

- Relay Output
- Number of channels: 16
- Relay type: SPDT (Form C)
- Isolation voltage: 1500 VRMs
- · Contact rating • AC: 120 V @ 0.5 A
- DC: 24 V @ 1 A
- Breakdown voltage: 1000 VRMs Contact resistance: 100 mΩ
- · Relay ON/OFF time
- · Operate time: 6 ms
- Release time: 3 ms
- · LED indicators for relay status: one per channel

- Expected life
- > 5 x  $10^5$  operations @ 1 A, 24 VDc > 2 x  $10^5$  operations @ 0.5 A, 120 VAc
- I/O Connector: 20-pin ribbon male
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Power consumption

+5 V	+12 V
200 mA maximum	528 mA maximum

Dimensions: 205 mm x 114 mm

**Ordering Information** 

ACLD-9185
Termination Board with 16-CH Relay Outputs
(Including One 1-meter ACL-10120 Cable)

# DIN Rail Screw Terminal Boards

### Features

#### General

- Universal screw termination boards for easy wiring
- DIN socket for easy mounting in DIN-rail

#### **DIN-100S**

- Termination board with one 100-pin SCSI-II connector and DIN-rail mounting
- General purpose termination board for 100-pin SCSI-II cable
- On-board connector type: 100-pin SCSI-II female
- Shipped with 1-meter ACL-102100 cable
- Dimensions: 158 mm x 120 mm x 52 mm (WxLxH)

#### DIN-68S/1M, DIN-68S/1S

- Termination board with one 68-pin SCSI-II connector and DIN-rail mounting
- General purpose termination board for 68-pin SCSI-II cable
- On-board connector type: 68-pin SCSI-II female
- Shipped with 1-meter ACL-10568-1 cable in DIN-68S/1M
- Shipped with 1-meter ACL-10569-1 cable in DIN-68S/1S
- Dimensions: 103 mm x 85 mm x 43 mm (WxLxH)

#### DIN-50S

- Termination board with one 50-pin SCSI-II connector and DIN-rail mounting
- General purpose termination board for 50-pin SCSI -II cable
- On-board connector type: 50-pin SCSI-II female
- Plastic cover for protection of wiring
- Shipped with 1-meter ACL-10250 cable
- Dimensions: 125 mm x 85 mm x 50 mm (WxLxH)

#### **DIN-502S**

- Two pieces of DIN-50S
- Split 100 signals of 100-pin SCSI-II connector to two DIN-50S sockets
- Shipped with 1-meter ACL-10252 cable
- Dimensions: 125 mm x 85 mm x 50 mm (WxLxH)

#### DIN-50P

- Termination board with one 50-pin ribbon connector and DIN-rail mounting
- General purpose termination board for 50-pin ribbon flex cable
- Shipped with 1.5-meter ACL-10150-1.5 cable
- Dimensions: 146 mm x 85 mm x 55 mm (WxLxH)

#### DIN-37D

- Termination board with one 37-pin D-sub connector and DIN-rail mounting
- General purpose termination board for D-sub 37-pin cable
- On-board connector type: 37-pin D-sub female
- Shipped with 1-meter ACL-10137-1 cable
- Dimensions: 113 mm x 85 mm x 52 mm (WxLxH)

#### DIN-20P

- Termination board with one 20-pin ribbon connector and DIN-rail mounting
- General purpose termination board for 20-pin ribbon cable
- Shipped with 1-meter ACL-10120-1 cable
- Dimensions: 68 mm x 85 mm x 55 mm (WxLxH)



### Ordering Information

- Termination Board with a 100-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-102100 Cable) **DIN-68S/1M**
- Termination Board with a 68-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-10568 Cable) **DIN-68S/1S**
- Termination Board with a 68-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-10569 Cable) **DIN-50S**
- Termination Board with a 50-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-10250 Cable)
- DIN-502S Two Pieces of DIN-50S Termination Board (Including One 1-meter ACL-10252 Cable) = DIN-50P
- Termination Board with a 50-pin Ribbon Connector and DIN-Rail Mounting (Including One 1.5-meter ACL-10150 Cable) **DIN-37D**
- Termination Board with a 37-pin D-sub Connector and DIN-Rail Mounting (Including One 1-meter ACL-10137 Cable)
  DIN-20P
- Termination Board with a 20-pin Ribbon Connector and DIN-Rail Mounting (Including One 1-meter ACL-10120 Cable)

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# -ACLD Screw Termination Boards

### Features

#### General

- Low cost universal screw termination boards
- Blank pads accommodate applications such as break detection, low-pass filter, current shunt and voltage attenuator on ACLD-9881, ACLD-9178, ACLD-9188, ACLD-9178, ACLD-9188,
- ACLD-9138, and ACLD-8125 Table-top mounting using nylon standoffs

#### ACLD-9881

- General-Purpose Termination Board with One 37-pin D-sub Connector for PCI-9113A and ACL-8113A
- For use with PCI-9113A and ACL-8113
- On-board 37-pin D-sub female connector
- Reliable screw clamp termination blocks
- Shipped with one 1-meter ACL-10137 cable
- Dimensions: 222 mm x 105 mm

#### ACLD-9188

- General-Purpose Termination Board with Two 20-pin Ribbon Connectors and One 37-pin D-sub Connector
- On-board 20-pin ribbon male connector x 2
- On-board 37-pin D-sub female connector
- Reliable screw clamp termination blocks
- Shipped with two 1-meter ACL-10120 cables
- Dimensions: 222 mm x 114 mm

#### ACLD-9178

- General-Purpose Termination Board with Two 20-pin Ribbon Connectors
- On-board 20-pin ribbon male connector x 2
- Reliable screw clamp termination blocks
- Shipped with two 1-meter ACL-10120 Cables
- Dimensions: 103 mm x 114 mm

#### ACLD-9138

- General-Purpose Termination Board with a 37-pin D-sub Connector
- On-board 37-pin D-sub female connector
- Blank RC circuits for analog input boards
- Reliable screw clamp termination blocks
- Shipped with one 1-meter ACL-10237 cable
- Dimensions: 103 mm x 114 mm

#### ACLD-9137 / ACLD-9137F

- General-Purpose Termination Board with a 37-pin D-sub Connector
- ACLD-9137: on-board 37-pin D-sub male connector
- ACLD- 9137F: on-board 37-pin D-sub female connector
- Reliable screw clamp termination blocks
- Dimensions: 124 mm x 72 mm

#### ACLD-8125

Termination Board with a 37-pin D-sub Connector and One Cold Junction Temperature Sensor

- One on-board temperature sensor for cold-junction compensation
- Jumper selectable sensor outputs in either DI or SE mode
- On-board calibration for the temperature sensor
- On-board 37-pin D-sub female connector
- Reliable screw clamp termination blocks
- Shipped with one 1-meter ACL-10137 cable
- Dimensions: 168 mm x 114 mm

#### ACLD-7285

- Termination Board with Two 9-pin D-sub Connectors for ACL-6128A
- For ACL-6128A analog outputs
- On-board 9-pin D-sub female connector x 2
- Reliable screw clamp termination blocks
- Shipped with two 0.3-meter 9-pin D-sub ribbon cables
- Dimensions: 115 mm x 103 mm



### Ordering Information

- ACLD-9881
   General-Purpose Termination Board with one 37-pin D-sub Connector (Including one 1-meter ACL-10137 Cable)

   ACLD-9188
- General-Purpose Termination Board with Two 20-pin Ribbon Connectors and One 37-pin D-sub Connector (Including Two 1-meter ACL-10120 Cables) • ACLD-9178
- ACLD-9176
   General-Purpose Termination Board with Two 20-pin Ribbon Connectors
   (Including Two 1-meter ACL-10120 Cables)
   ACLD-9138
- ACLD-9138 General-Purpose Termination Board with a 37-pin D-sub Connector (Including One 1-meter ACL-10237 Cable)
- ACLD-9137
   General-Purpose Termination Board with a 37-pin D-sub Male Connector
   ACLD-9137F
- General-Purpose Termination Board with a 37-pin D-sub Female Connector **ACLD-8125** Termination Board with a 37-pin D-sub Connector and One Cold Junction
- Temperature Sensor (Including One 1-meter ACL-10137 Cable)
- Termination Board with Two 9-pin D-sub Connectors (Including two 0.3-meter 9-pin D-sub Ribbon Cables)

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### **Cable Accessories** ACL-10437 ACL-10120-1/2 ACL-10537 37-Pin D-sub Assembly 40-Pin header to 37-Pin D-sub PC back panel 20-Pin Flat Cable,1M/2M (for ACL-7225, PCI-7200) ACL-105100 ACL-10150-1.5 ACL-10220-1/2 50-Pin Flat Cable, 1.5M 100-Pin SCSI-II Assembly 20 Pin Shielded & Grounded Cable,1M/2M ACL-10232 ACL-10250 ACL-10550 9-Pin D-sub (RS-232) male/female Cable, 5M 50-Pin SCSI-II Cable 50-Pin SCSI-II Assembly (Mate with AMP-787082-5, 1M, 2M, 3M) ACL-10137-1/2 ACL-102100 ACL-10569-1 100-Pin SCSI-II Cable (Mate with AMP-787082-9) 68-Pin SCSI Cable (Mate with AMP-787082-7) 37-Pin D-sub male/male Cable,1M/2M ACL-10137 MF ACL-10252 ACL-SSI-2/3/4 37-Pin D-sub male/female Cable,1M 100-Pin to 2x50-Pin Cable (for DIN-502S) SSI Bus Cable for 2/3/4 DAQ-2000 Devices (for ACLD-9137 ACL-10237-1 ACL-10253 SMB-SMB-1M 37-Pin D-sub male/male flat Cable,1M 100-Pin to 2x50-Pin Cable 1-Meter SMB to SMB Cable (for PCI-7348 to DIN-24P/R) ACL-10337 ACL-10568-1M SMB-BNC-1M 68-Pin SCSI-VHDCI Cable (for DAQ-2000 Series) 1-Meter SMB to BNC Cable

Two 20-Pin header to 37-Pin D-sub PC back panel



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(Mate with AMP-787254-1)

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 DS1057 

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 DS1057-30A282R-76.5
 DS1057-34A282R-76.5
 DS1057-40A282R-76.5
 DS1057-60A282R-76.5
 DS1057-64A282R-76.5

 DS1058-08M28-30.5
 DS1058-30M28-30.5
 3750/10 (100FT)
 0015712
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