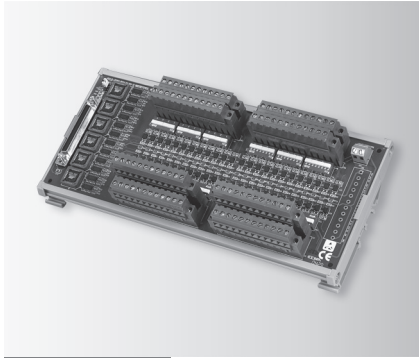# PCLD-8751
# PCLD-8761
# PCLD-8762

**48-ch Opto-Isolated Digital Input Board**
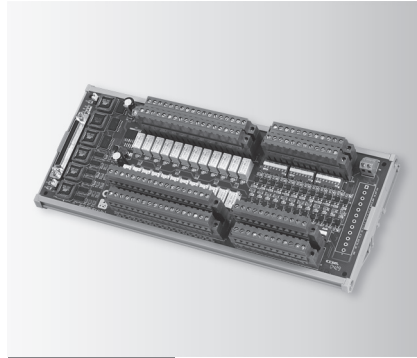
**24-ch Opto-Isolated DI and 24-ch Relay Output Board**

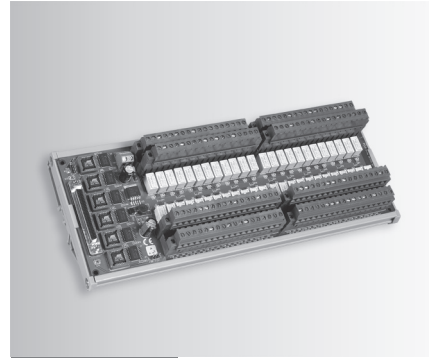**48-ch Relay Output Board**

| | | |
|---|---|---|
| PCLD-8751 CE FCC | PCLD-8761 CE FCC | PCLD-8762 CE FCC |

## 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 | 3,500 V |
| Logic Modes | Positive Logic Negative Logic (set by jumper) |
| Signal Voltage | 0 ~ 30 V VIH (MIN) : 4 V, VIL (MAX) : 1 V |

### General

| | |
|---|---|
| Certification | CE, FCC |
| Connectors | Cable: SCSI-68 pin Signals: Plug-in screw terminals (#14 - 24 AWG) |
| Dimensions | 255 x 121 mm (10.04" x 4.76") |
| LED Indicators | One for each channel to indicate logic status |
| Mounting | DIN-rail |

## Ordering Information

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

## 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 |
| Contact Mode | Wet contact and dry contact for each IDI (set by switch) |
| Digital Input | 0 ~ 30 V VIH (MIN) : 4 V, VIL (MAX) : 1V |
| Isolation Voltage | 3,500 V (Isolated DI), 1,500V (Relay) |
| Logic Mode (IDI and Relay are independent) | Positive Logic Negative Logic (set by jumper) |

### Relay Output

| | |
|---|---|
| Channels | 24 SPDT (Form C) |
| Contact Rating | 30 $V_{DC}$ @ 1 A, 120 $V_{AC}$ @ 0.5 A |
| Contact Resistance | 100 m$\Omega$ |
| Electrical Endurance | 5 x $10^7$ times at 12 V/10 mA |
| Mechanical Endurance | $10^8$ times |
| Operation Time | 5 ms Max |
| Release Time | 6 ms Max |

### General

| | |
|---|---|
| Certification | CE, FCC |
| Connectors | Cable: SCSI-68 pin Signals: Plug-in screw terminals (#14 - 24 AWG) |
| Dimensions | 285 x 121 mm (11.22" x 4.76") |
| Mounting | DIN-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-ch Relay (SPDT) 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

| | |
|---|---|
| Channels | 48 SPDT (Form C) |
| Contact Rating | 30 $V_{DC}$ @ 1 A, 120 $V_{AC}$ @ 0.5 A |
| Contact Resistance | 100 m$\Omega$ |
| Electrical Endurance | 5 x $10^7$ times at 12 V/10 mA |
| Mechanical Endurance | $10^8$ times |
| Operation Time | 5 ms Max |
| Release Time | 6 ms Max |

### General

| | |
|---|---|
| Certification | CE, FCC |
| Connectors | Cable: SCSI-68 pin Signals: Plug-in screw terminals (#14 - 24 AWG) |
| Dimensions | 285 x 117 mm (11.22" x 4.61") |
| 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 |

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**ADVANTECH** **Signal Conditioning Modules and Terminal Boards**