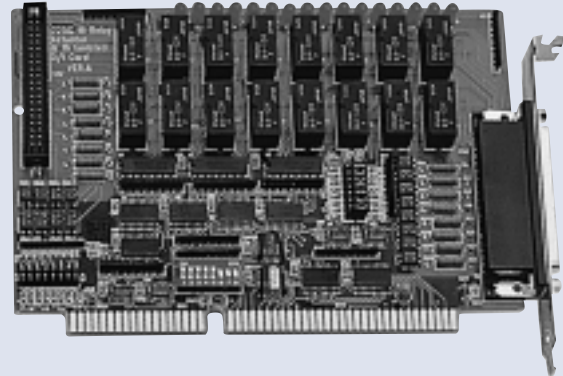


Features

- 16 relay actuator outputs
- 16 opto-isolated AC or DC polarity-free digital inputs
- LEDs indicate the energized relays
- Input jumpers select AC Filter/ Non-AC Filter modes
- 1,000 VDC isolation
- On-board relay driving circuits
- On-board digital input signal conditioning circuits
- 37-pin D-type female connector



Specifications

Relay Outputs

- Relay type: Single-Pole-Double-Throw (SPDT)
- Output channels: 16
 - Form C: CH# 0~4 and 8~12
 - Form A: CH# 5~7 and 13~15
- Form C contacts: with Normal Open and Normal Closed
- Form A contacts: Normal Open only
- LED indicates each relay's ON/OFF status for monitoring.
- Contact type: 120VAC @ 0.5A or 24VDC @ 1A
- Contact resistance: Bifurcated
- Relay ON/OFF time: 5 msec. typical
- Coil voltage: +12V @ 33mA for each relay

Isolated Inputs

The 16 photo-isolated DI channels are used for sensing digital inputs and provide 1,000VDC isolation. Each can be configured with AC Filter or Non-AC Filter by jumper settings.

- Number of input channels: 16
- Photo isolators: PC-814
- Input signal type: AC or DC
 - AC: don't care polarity
 - DC: with polarity
- Input voltage: 5~24VDC or AC 50~1,000Hz

- Input filters: RC low pass filter
- Input impedance: 1.2k Ohm
- Isolation voltage: 1,000VDC channel-to-channel and channel-to-ground
- Response time:
 - 20 (sec without AC Filter)
 - 2.2ms with AC Filter

General Specifications

- Operating temperature: 0° ~ 55°C
- Storage temperature: -20° ~ 80°C
- Humidity: 5~90%, non-condensing
- Power requirement:
 - +5V: 310mA typical
 - +12V: 550 mA maximum, all relays are energized
- Dimension: 177 mm x 122 mm

Termination Boards

- ACLD-9137 • ACLD-9188
- DIN-37D

Ordering Information

ACL-7225

16-CH Relay and 16-CH Isolated DI Card
(Includes 40 pin to PC back panel extension cable: ACL-10437)

Pin Assignments for the DB-37 Connector

NO0 (1)	○	(20) COM0
NC0 (2)	○	(21) NO1
COM1 (3)	○	(22) NC1
NO2 (4)	○	(23) COM3
NC2 (5)	○	(24) NO3
COM3 (6)	○	(25) NC3
NO4 (7)	○	(26) COM4
NC4 (8)	○	(27) NO5
COM5 (9)	○	(28) NO6
COM6 (10)	○	(29) NO7
COM7 (11)	○	(30) DIB0
DIA0 (12)	○	(31) DIB1
DIA1 (13)	○	(32) DIB2
DIA2 (14)	○	(33) DIB3
DIA3 (15)	○	(34) DIB4
DIA4 (16)	○	(35) DIB5
DIA5 (17)	○	(36) DIB6
DIA6 (18)	○	(37) DIB7
DIA7 (19)	○	