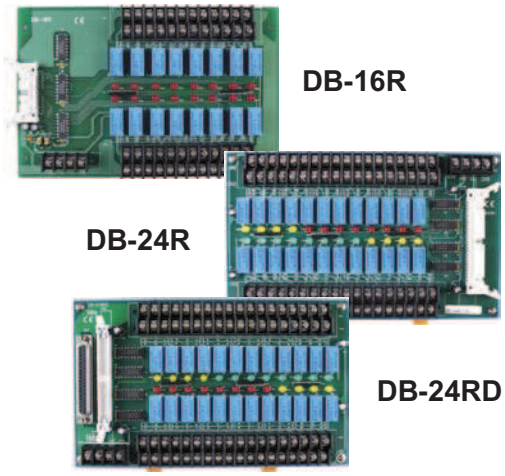
DIO Terminal Board

DB-16R/24R/24RD

16/24-channel relay output board



Features

- 16 Form C relays (DB-16R)
- 24 Form C relays (DB-24R, DB-24RD)
- LED indicated relay status
- Screw terminals for field wiring

Functional Description

The DB-16R is a 16-channel Relay Output Board which consists of 16 Form C relays for efficient switch of load by programmed control. The DB-16R can be used by A-82x board or any other compatible board. The relays are energized by apply 5V signal to the appropriate relay channesl on the 20-pin flat cable connector. To avoid overloading your PC's power supply, this board needs a +12V DC external power supply.

The general specification of DB-24R/24RD is the same as DB-16R. But DB-24R/24RD can be used for 24-channel relay output. The coil rated voltage can be selected to +12VDC or +24VDC.

Specifications

Relay Output

- Type: SPDT (Form C)
- Nominal load: 120VAC@0.5A, 24VDC@1A
- Max. switching power: 60VA, 24W
- Max. switching Voltage:120VAC, 60VDC
- Max. switching Current: 1A
- Life Expectancy: Mechanical (2 x10^7)
  Electrical (2 x 10^5)
- Operate time: 6ms
- Release time: 3ms
- Control Logic: Input TTL high (+5V), relay on

General Specifications

- Power Requirements:

Device	+5V	+12V	+24V
DB-16R	120 mA	528 mA	-
DB-24R/24RD	200 mA	800 mA	350 mA

- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 80°C
- Dimensions: 205 mm x 114 mm (DB-16R)
  225 mm x 132 mm (DB-24R, DB-24RD)

Ordering Information

Standard

DB-16R:	16-channel relay board with CA-2010 cable
DB-24R/12:	24-channel OPTO-22 relay board with CA-5015 cable (12 V coil voltage)
DB-24R/12/DIN:	DB-24PR/12 with DIN-rail mounting kit
DB-24R/24:	24-channel OPTO-22 relay board with CA-5015 cable (24V coil voltage)
DB-24R/24/DIN:	DB-24PR/24 with DIN-rail mounting kit
DB-24RD/12:	24-channel OPTO-22 relay board with CA-5015 cable (12V coil voltage)
DB-24RD/12/DIN:	DB-24PRD/12 with DIN-rail mounting kit
DB-24RD/24:	24-channel OPTO-22 relay board with CA-5015 cable (12V coil voltage)
DB-24RD/24/DIN:	DB-24PRD/24 with DIN-rail mounting kit

Optional

CA-3720:	37-pin D-sub cable, 2m

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