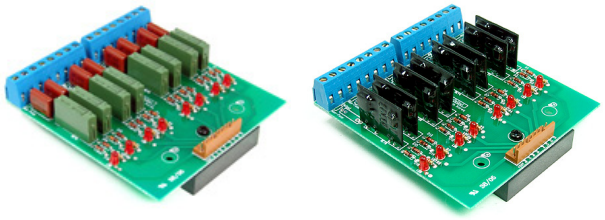
Relay8 & SSR8

Plug-N-Play Relays



1. Introduction

Do you need to control high voltage AC or DC devices from a digital controller? The Relay8 and SSR8 Boards give engineers the ability to control up to 8 AC devices from an industrial controller such as CUBLOC or CuTOUCH. The Relay8 Boards can also control DC devices up to 30V. Whether you design small or large industrial controllers, these boards can help you save time and money.

The Relay8 and SSR8 Boards are composed of 8 individual relays. With Plug-N-Play option to complement Comfile's development boards, the user may easily take advantage of the flexibility and low-cost.

To use the Relay8 Board, simply connect VCC to 24V and S/N to your I/O Port on the CuBASE 32M, 64M, or CuTOUCH CT1720 Add-On Board.

To use the SSR8 Board, simply connect VCC to 4-24V and S/N to your I/O Port on CuBASE 32M, 64M, CuTOUCH CT1720 (or Add-On Board), or any other MCU that outputs between 4 to 24VDC.

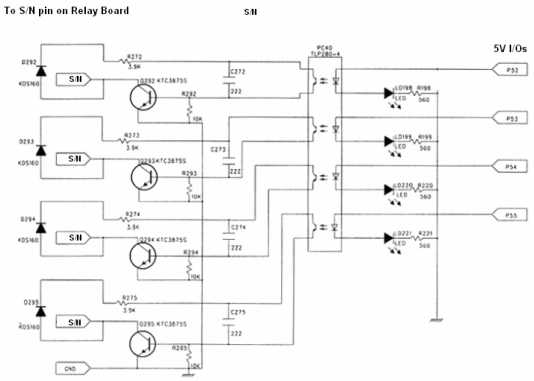
If you are using CuBASE 32M, 64M, or CuTOUCH Add-On Board, simply connect to the orange connection points from the output port connections.

Polarity of Output A and Output B does not matter.

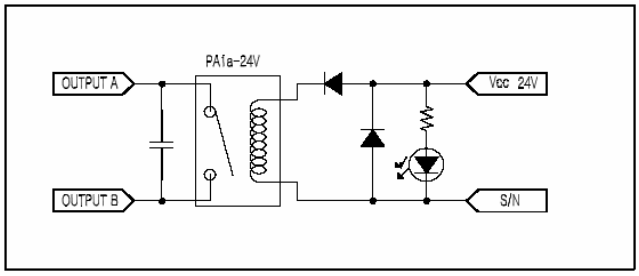
2. Applications

- Any AC device up to 250VAC (Relay8, SSR8)
- Any DC device up to 30VDC (Relay8)

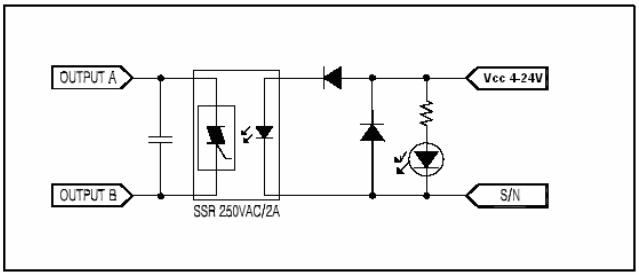
*If you are using 5V I/O ports or other MCUs, you will need a 24V TR Output circuit: like this using a photocoupler for the Relay8 Board. The **SSR8 Board may accept 4-24V for S/N**.



[RELAY8 Board]



[SSR8 Board]



2. Specifications

Relay8 Board

Arrangement		PA1a-24V
Contact material		Gold-clad silver alloy
Initial contact resistance,max		30mΩ
Rating	Nominal switching capacitor	5A 250V, 5A 30VDC
	Maximum switching power	1250VA, 150W
	Maximum switching voltage	250V AC, 110V DC
	Max, switching current	5A
	Nominal operating power	180mW
	Coil resistance	3200Ω
	Minimum operating voltage	16.8V DC
	Maximum operating voltage	28.8V DC

SSR8 Board

Arrangement		PDA1-202Z	PDA1-205Z
Load	Load Voltage (OutputA-B)	50V~240Vrms	50V~240Vrms
	Load Crrent	2A	5A
	Maximum Voltage	600V	600V
	Peak 1-Cycle Surge Current	30A	70A
	On-State Voltage Drop	2MAX	2MAX
	Off-State Leakage Current	1MAX	1MAX
Input	Nominal operating power	4V~32VDC	4V~32VDC
	Pick-up Voltage	4MAX	4MAX
	Drop-out Voltage	1Min	1Min

3. Example Program for CuBASE32M

```
Const Device = CB280

'Connect Relay8 or SSR8 Board to CN7 of CuBASE32M
Do
        Out 40,1      'Turn relay ON
        Delay 500
        Out 40,0      'Turn relay OFF
        Delay 500

Loop
```