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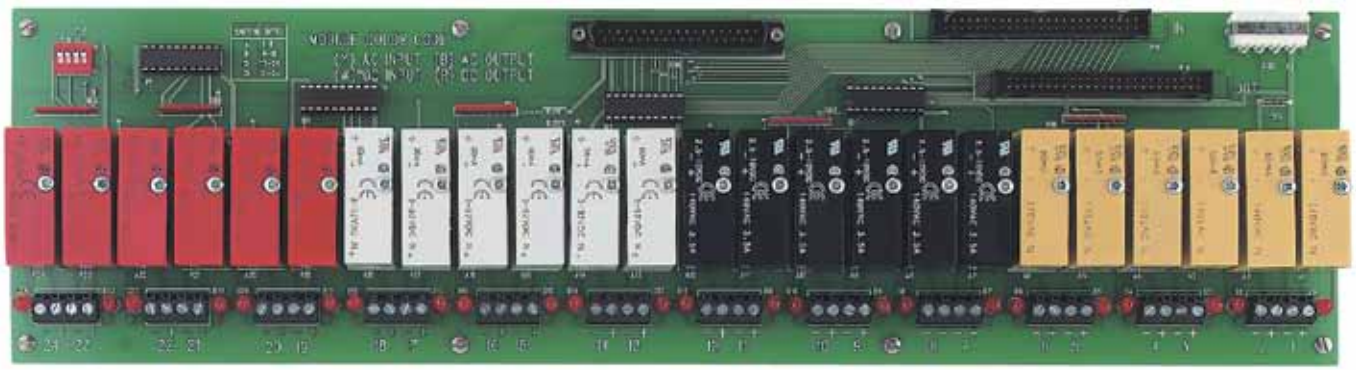
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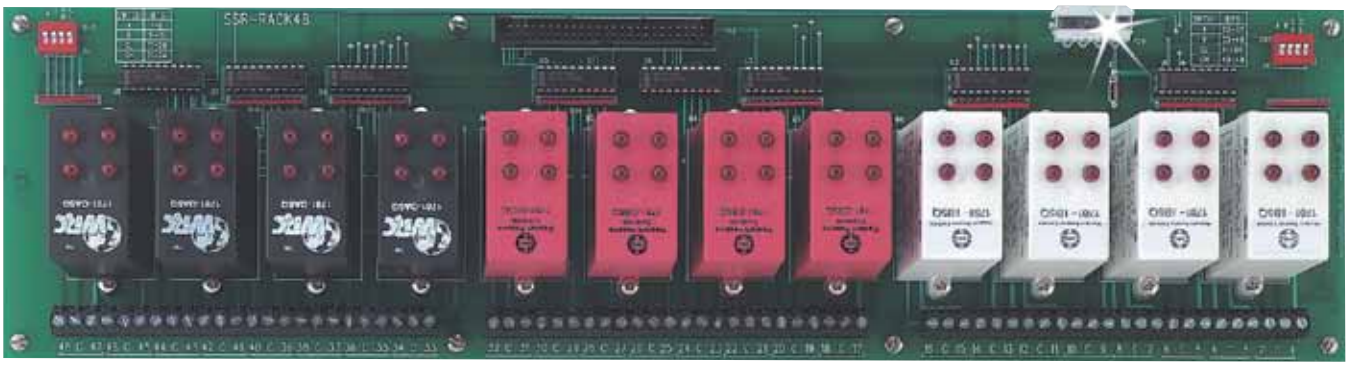
Interface Racks for Solid State Input/Output Modules

SSR-RACK48, SSR-RACK24 and SSR-RACK08



SSR-RACK24

Racks Shown with Optional Solid State I/O Modules



SSR-RACK48

- **48, 24 and 8-Channel Models**
- **Direct Connection to the CIO Family of Digital I/O Plug-in Boards**
- **On-Board Buffers**
- **Powered by 5 Vdc**

Most digital I/O boards can not be directly interfaced to real world devices. Output voltages are usually limited to TTL levels (0/5 Vdc) with a few milliamps of drive current. Inputs are also typically limited to a maximum 5 volt level. When higher voltages or currents are needed, OMEGA's solid state I/O modules are the perfect solution. Models are available for input or output signals in AC and DC voltage versions.

The SSR-RACK series is a family of backplanes that accept the solid state I/O modules and provide a direct connection to OMEGA's CIO family of digital I/O PC plug-in boards. Three models are available; the SSR-RACK48, SSR-RACK24 and SSR-RACK08 which are 48, 24 and 8 channel models respectively.

SSR-RACK48

The SSR-RACK48 is a high density mounting and interface rack for the quad type solid state I/O modules (OMEGA's SSS-Q series). The rack can hold 12 quad modules for a total of 48 channels of I/O. The SSR-RACK48 provides screw terminals for field connections. The connection to the digital I/O board is made through a 50 pin connector. The SSR-RACK48 may be connected directly to the CIO-DIO192, CIO-DIO96 and CIO-DIO48 using a C50FF-2 cable.

SSR-RACK24

The SSR-RACK24 accepts 24 of OMEGA's single channel SSS series solid state I/O modules. Screw terminals for each module provide field connection. The SSR-RACK24 contains both a 37 pin and a 50 pin connector. The 37 pin connector is designed to interface to 24 channel I/O boards. The 50 pin connector is used to connect to I/O boards with 48 channels or greater. A second 50 pin connector is provided so additional SSR-RACK24s may be connected to the same digital I/O board.

The SSR-RACK24 may be connected directly to the CIO-DIO24, CIO-DIO24H and CIO-DIO24/CTR3 digital I/O boards using the C37FF-2 cable. The SSR-RACK24 may be directly connected to the CIO-DIO192, CIO-DIO96 and the CIO-DIO48 boards using the C50FF-2 cable.

SSR-RACK08

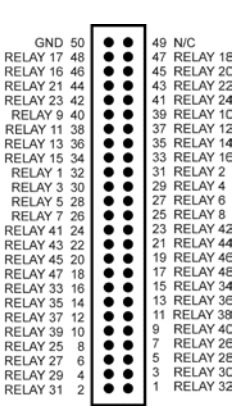
If your application needs only a limited number of solid I/O modules, you can save money and cabinet space with the SSR-RACK08. It holds 8 single function solid state relays and is cabled to Port C of the digital I/O board so that you can split the 8 relays between input and output. The SSR-RACK08 uses a 37 pin connector and can connect directly to a CIO-DIO24, CIO-DIO24H or CIO-DIO24/CTR3 with a C37FF-2 cable.

SSR-RACKs Have Buffers on Board

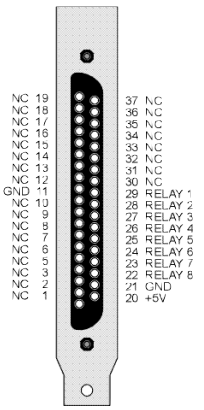
Most 8255 based digital I/O boards do not provide enough output current to directly turn on a solid state I/O module. The SSR-RACKs are designed with buffers on board. That means you can plug directly into the SSR-RACK from your CIO-DIO24, 48, 96 or 192 or any other 82C55 based digital I/O board.

SSR-RACK Inverting Logic

The SSR-RACK follows the industry standard convention of inverted logic used by virtually all manufacturers of solid state backplanes. When a high voltage is applied to an input module, the output of the SSR-RACK will go low (ground). When a low voltage is applied to an input module, the output of the SSR-RACK will be a high signal (5V). Output modules also use inverted logic. This means that a 0 output from the digital I/O board will cause an output module to activate (complete the circuit) while a 1 (TTL high) will cause the relay to deactivate. The chips that invert the logic are socketed and may easily be substituted with chips that do not invert the logic.



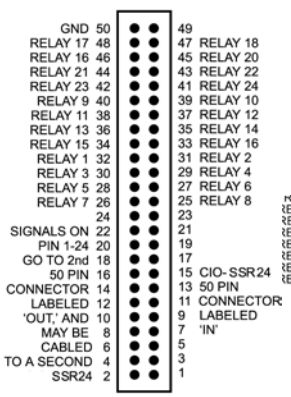
SSR-RACK48 50PIN



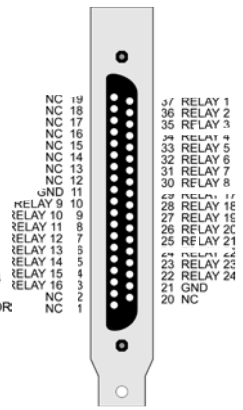
SSR-RACK08 37PIN

SSR-RACK08 Rack Shown with Optional Solid State I/O Modules





SSR-RACK24 50PIN



SSR-RACK24 37PIN

OMEGACARE℠ Extended Warranty Program

OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equivalent loaners.

Digital I/O Board Compatibility Guide

Rack	Digital I/O Boards	Cable
SSR-RACK48	CIO-DIO192, CIO-DIO96, CIO-DIO48	C50FF-2
SSR-RACK24	CIO-DIO192, CIO-DIO96, CIO-DIO48	C50FF-2
SSR-RACK24	CIO-DIO24, CIO-DIO24H, CIO-DIO24/CTR3	C37FF-2
SSR-RACK08	CIO-DIO24, CIO-DIO24H, CIO-DIO24/CTR3	C37FF-2

Dimensions:

SSR-RACK48 and **RACK24:**
17 X 4.5 X 1.5" (with relays)

SSR-RACK08:
9 X 4 X 1.5" (with relays)

Power: +5 Vdc externally supplied or from PC with CMOLEX-10 cable

To Order

Model No.	Description
SSR-RACK48	48 channel solid state I/O module rack, accommodates 12 quad I/O modules
SSR-RACK24	24 channel solid state I/O module rack, accommodates 24 single channel I/O modules
SSR-RACK08	8 channel solid state I/O module rack, accommodates 8 single channel I/O modules

Note: *The SSR-RACK24 and SSR-RACK48 include a 10' power cable.*

Ordering Example: SSR-RACK48*, 48 channel solid state I/O module rack, (accommodates 12 quad I/O modules), and* ***OCW-1,*** *OMEGACARE℠ extends standard 1-year warranty to a total of 2 years.*

Accessories

Model No.	Description
C37FF-2	2 ft. 37 pin cable
C50FF-2	2 ft. 50 pin cable
BP-POWER	3 connectors on a ISA card with backplate
PC-POWER-10	10' power cable, required for the SSR-RACK08, included with the SSR-RACK24 and RACK48
Solid State I/O Modules	See I/O module data sheets for ordering information

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