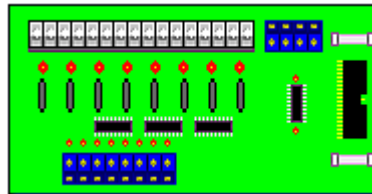


303-2

SMATLAB
INDUSTRIAL AUTOMATION SERIES



8 CHANNEL SSR/LOGIC OUTPUT BOARD



8 Channel SSR / logical output board

Product Code: A8SSR

INTRODUCTION

The 8 Channel SSR / logical output board provides 8 SSR output channels and 8 logical output channels. The SSR can be treated as a relay. Each SSR channel can be used to control ON/OFF of external devices, to drive external high power devices to activate alarms. Etc. There are 8 LED indicators correspond to 8 SSR channels, when SSR is energized, the corresponding LED is light.

The output voltages of logical output channel are user selectable; user may select +5V, 12V, or the external voltage lower than 40V DC. There are 8 LED indicator corresponds to 8 logical output channels, when output voltage is low, then the corresponding LED is light.

The features of 8 Channel SSR/Logical output board are:

1. Support 8 SSR output channels and 8 logical output channel.
2. The SSR operation characteristics are similar to relay.
3. Provides more than 12 types of SSR output module, which are tabled below.
4. LED indicates when signal is energized.
5. Built in screw terminals for easy wiring.

Maximum
voltage
of
logical

6. output
channel
is
40V
DC.

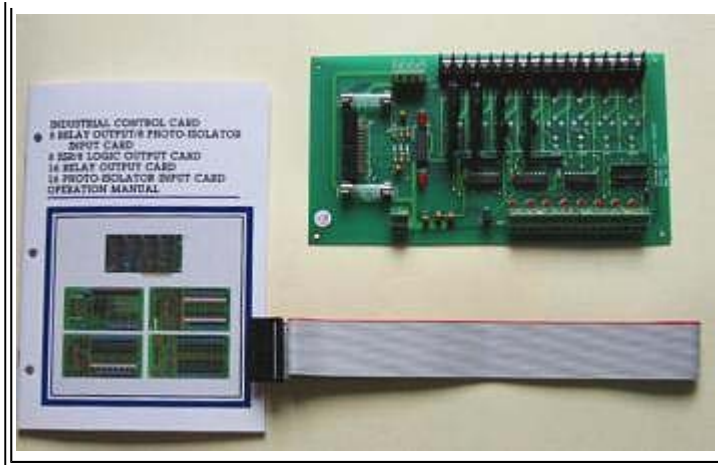
7. Maximum sink current of logical output channel is 100mA.
8. Screw terminal: accept #22 to #12 awg wire.
9. The specifications of SSR are:

The package includes following item

Check that your PCI bus Industry Control Card package includes the following items:

The package contains:

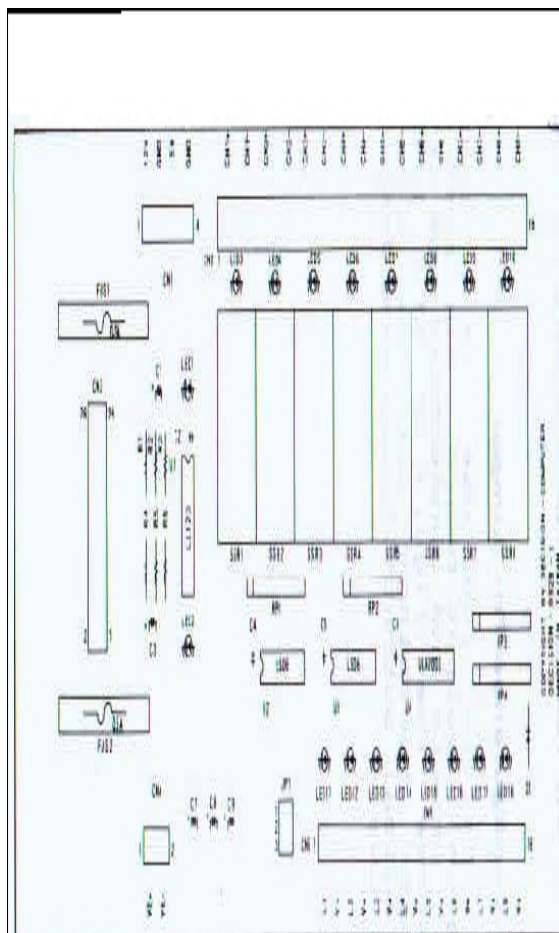
1. 8 Channel SSR/ Logical Output board.
2. One 26 pins flat cable.
3. User's manual.



HARDWARE INSTALLATION

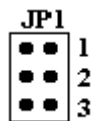
2.1 Configuration For Jumper

Before you use the 8 Channel SSR/ Logical Output board, you must ensure that the jumpers and connectors are set correctly. Observe the figure in the following, the proper settings for the 8 Channel SSR / Logical Output boards are described in the follows.



2.2 Relay Output Function

- Internal / external power selection.



JP1 is used to select output voltage, when JP1-1 is short, then the output voltage is 5V. When the Jp1-2 is short, we select 12V as the output voltage. Suppose the output voltage we required is not 5V or 12V, the JP1-3 is short, to use the VEXT voltage.

TB3 is used to connect external power; the configuration is shown in the follows. The maximum input voltage is 40V DC.

2.3 Signal Assignments

1. Signal assignment of 26 pins flat cable

The 26 pins flat cable connector is connected to digital output interface card such as: industry control,

TTL I/O, 8255 I/O, connector is shown in the following.

Pin	Description	Pin	Description
1	+12V	14	I/O line 9
2	GND	15	I/O line 10
3	+12V	16	I/O line 11
4	GND	17	I/O line 12
5	I/O line 0	18	I/O line 13
6	I/O line 1	19	I/O line 14
7	I/O line 2	20	I/O line 15
8	I/O line 3	21	/CS1
9	I/O line 4	22	/CS2
10	I/O line 5	23	+5V
11	I/O line 6	24	GND
12	I/O line 7	25	-12V
13	I/O line 8	26	GND






2. Signal assignment of server connector

The SSR output signals and logical output signals are shown in the follows. TB1 is the screw connector of SSR output channel and TB2 is the screw connector of logical output channel.

No.	TB1	TB2
1	CH0+	CH8
2	CH0-	V+
3	CH1+	CH9
4	CH1-	V+
5	CH2+	CH10
6	CH2-	V+
7	CH3+	CH11
8	CH3-	V+
9	CH4+	CH12
10	CH4-	V+
11	CH5+	CH13
12	CH5-	V+
13	CH6+	CH14
14	CH6-	V+
15	CH7+	CH15
16	CH7-	V+

The TB4 is output voltage connector, TB4-1 supports 12V, TB4-2 supports 0V, TB4-3 supports 5V, and TB4-4 supports 0V.



- [Manual](#) 
- [Device Driver](#) 
- [Self Test Software & Sample Code](#) 
- [Web Based DAQ](#) 
- [Application](#) 
- [Q&A](#) 