

# MSI PC/104 Embedded PC Series

# MSI-AX10455 8-Channel SPDT Relay Card

## FEATURES

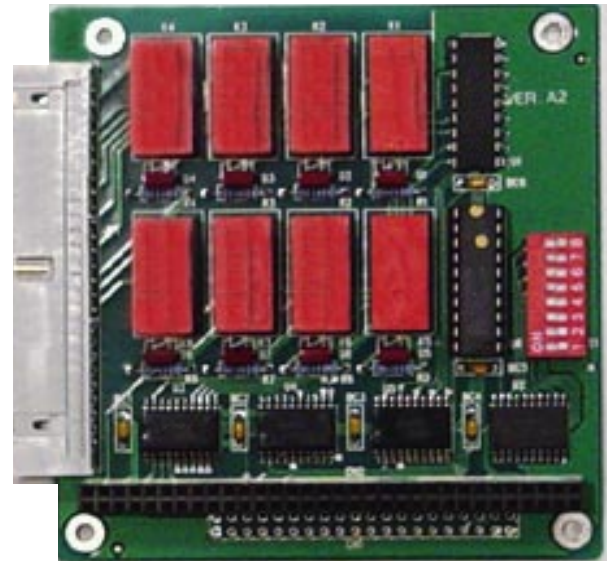
- ◆ Eight SPDT (single-pole, double-throw) relays.
- ◆ 125 VAC/1.5A maximum contact rating.
- ◆ Isolation voltage of 1000 Vrms.
- ◆ NC, NO and COM contacts output.
- ◆ LED indicators to show activated relays.
- ◆ Small size PC/104 form factor (90 mm x 96 mm).
- ◆ One-year warranty from date of shipment.

## DESCRIPTION

The MSI-AX10455 relay output card is designed for industrial control applications. It contains 8 channels of SPDT relays which can be set or reset directly by I/O write instructions. Each relay is rated at 1.5A @ 125 VAC. The normally open (NO), normally closed (NC) and common (COM) contacts of each relay are available through a 50-pin connector. A LED which is adjacent to each relay lights when the relay is energized. The relay is activated when a logic high is written to the I/O port address assigned by onboard switches.

## SPECIFICATIONS

|                                |                                 |
|--------------------------------|---------------------------------|
| <b>Output Channels</b>         | 8 SPDT relays                   |
|                                | 8 LED indicators                |
| <b>Output Type</b>             | NO, NC & Common                 |
| <b>Maximum Contact Ratings</b> |                                 |
| Power                          | 30W/60VA                        |
| Voltage                        | 125 VAC                         |
| Current                        | 1.5 A AC/DC                     |
| <b>Contact Resistance</b>      | 100 mOhms maximum               |
| <b>Life Expectancy</b>         | 10 X 10 <sup>6</sup> operations |
| <b>Operate/Release Time</b>    | 8/8 ms                          |
| <b>Breakdown Voltage</b>       |                                 |
| Coil-to-Contact                | 1500 Vrms                       |
| Across Contact                 | 1000 Vrms                       |



### Power Requirements

+ 5VDC @ 200 mA  
+12VDC @ 100 mA

### Size

90 mm x 96 mm

### Weight

230 g

### Connector

50-pin

|       |    |    |       |
|-------|----|----|-------|
| R1COM | 1  | 2  | R1COM |
| R1NC  | 3  | 4  | R1NC  |
| R1NO  | 5  | 6  | R1NO  |
| R2COM | 7  | 8  | R2COM |
| R2NC  | 9  | 10 | R2NC  |
| R2NO  | 11 | 12 | R2NO  |
| R3COM | 13 | 14 | R3COM |
| R3NC  | 15 | 16 | R3NC  |
| R3NO  | 17 | 18 | R3NO  |
| R4COM | 19 | 20 | R4COM |
| R4NC  | 21 | 22 | R4NC  |
| R4NO  | 23 | 24 | R4NO  |
| R5COM | 25 | 26 | R5COM |
| R5NC  | 27 | 28 | R5NC  |
| R5NO  | 29 | 30 | R5NO  |
| R6COM | 31 | 32 | R6COM |
| R6NC  | 33 | 34 | R6NC  |
| R6NO  | 35 | 36 | R6NO  |
| R7COM | 37 | 38 | R7COM |
| R7NC  | 39 | 40 | R7NC  |
| R7NO  | 41 | 42 | R7NO  |
| R8COM | 43 | 44 | R8COM |
| R8NC  | 45 | 46 | R8NC  |
| R8NO  | 47 | 48 | R8NO  |
|       | 49 | 50 |       |



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