

# MSI PC/104 Embedded PC Series

# MSI-P455 8-Channel SPDT Relay Card

## FEATURES

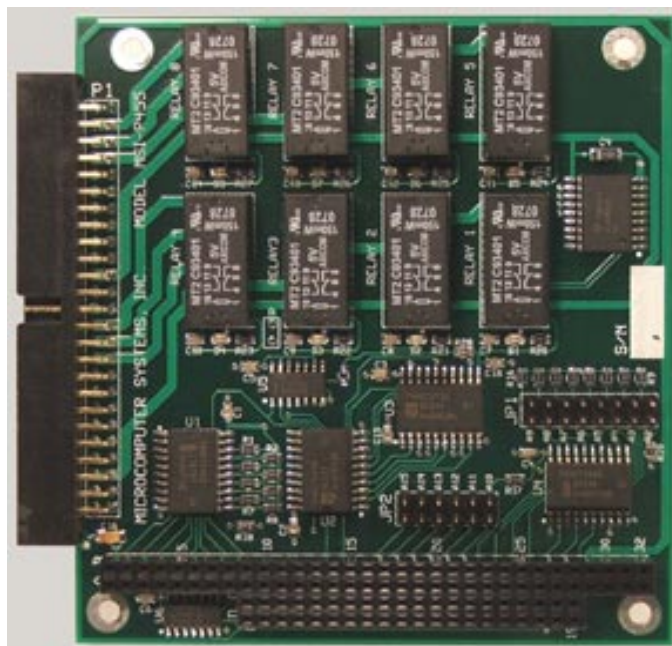
- ◆ Eight SPDT (single-pole, double-throw) relays.
- ◆ 125 VAC/1.5A maximum contact rating.
- ◆ Isolation voltage of 1000 Vrms.
- ◆ NC, NO and COM contacts output.
- ◆ LED indicators to show activated relays.
- ◆ 16-Bit I/O mapped Addressing.
- ◆ Small size PC/104 form factor (90 mm x 96 mm).
- ◆ One-year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

## DESCRIPTION

The MSI-P455 relay output card is designed for industrial control applications. It contains 8 SPDT relays which can be set or reset directly by I/O write instructions. The power-on rest condition for all relays is normally open. 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 16-Bit I/O port address assigned by onboard address jumpers. Requires +5V at 300 mA maximum.

## SPECIFICATIONS

Output Channels	8 SPDT relays
Output Type	8 LED indicators
Maximum Contact Ratings	NO, NC & Common
Power	30W/60VA
Voltage	125 VAC
Current	1.5 A AC/DC
Contact Resistance	100 mOhms maximum
Life Expectancy	10 X 10 <sup>6</sup> operations
Operate/Release Time	8/8 ms
Breakdown Voltage	
Coil-to-Contact	1500 Vrms
Across Contact	1000 Vrms
I/O Addressing	16-Bit, jumper selectable



Power Requirements

+5VDC @ 200 mA

Size

90 mm x 96 mm

Weight

230 g

50-Pin Connector

Type 3M 30350-5002

### Connector Pin Assignments

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
N/C	49	50	N/C



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