

MSI PC/104

Embedded PC Series

MSI-AX10450

16-Channel Opto-Isolated Digital Input Card

FEATURES

- 16 channels of optically-isolated inputs for harsh industrial environments.
- Isolation up to 1000 Vrms.
- Input filter circuit included onboard.
- Wide input range of voltages.
- Small size PC/104 form factor (90 mm x 96 mm).
- Detailed User's Manual.
- One-year warranty from date of shipment.

DESCRIPTION

The MSI-AX10450 opto-isolated input PC/104 module is designed for monitoring digital input status in harsh industrial environments. It provides 16 channels of digital inputs for detecting ON/OFF, OPEN/CLOSE, etc. signals and has interrupt capability on the first channel. The input range is from 0V to $\pm 24V$ which is suitable for many applications. The input-to-bus isolation is 1000 Vrms which protects the system against voltage spikes that often occur in harsh industrial environments.

SPECIFICATIONS

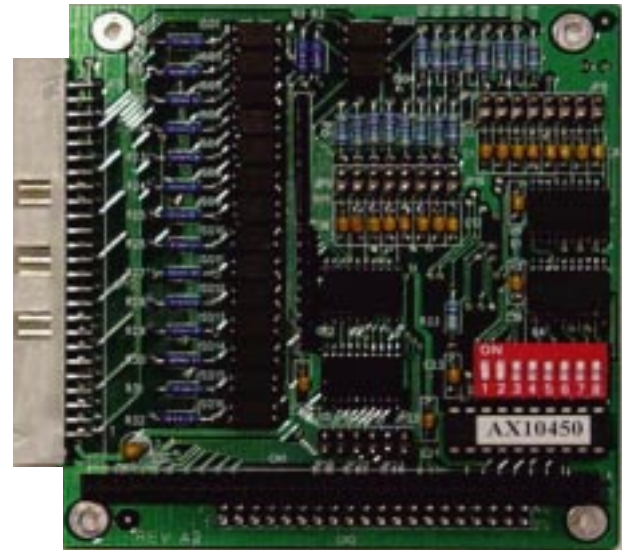
PC/104 8-bit, stackthrough

Digital Inputs

Opto-Isolators PC814 or equivalent
 Channels 16
 Voltage Range $\pm 5V - \pm 24V$
 Logic level 0 $-5V < V_{in} < +5V$
 Logic level 1 $+5V < V_{in} < -5V$
 Current limit resistor 1.2KOhm, 0.5W
 Maximum current ± 50 mA

Power Requirement

+5 VDC @ 400 mA



Physical/Environmental

Dimensions (L x W) 95 x 90 mm

Weight 80 g

Output Connector 50-pin

+DIO	1	2	+DI8
- DI0	3	4	- DI8
GND	5	6	GND
+DI1	7	8	+DI9
- DI1	9	10	- DI9
GND	11	12	GND
+DI2	13	14	+DI10
- DI2	15	16	- DI10
GND	17	18	GND
+DI3	19	20	+DI11
- DI3	21	22	- DI11
GND	23	24	GND
+DI4	25	26	+DI12
- DI4	27	28	- DI12
GND	29	30	GND
+DI5	31	32	+DI13
- DI5	33	34	- DI13
GND	35	36	GND
+DI6	37	38	+DI14
- DI6	39	40	- DI14
GND	41	42	GND
+DI7	43	44	+DI15
- DI7	45	46	- DI15
+12V	47	48	+12V
+12V	49	50	+12V



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