MSI PC/104
Embedded PC Series

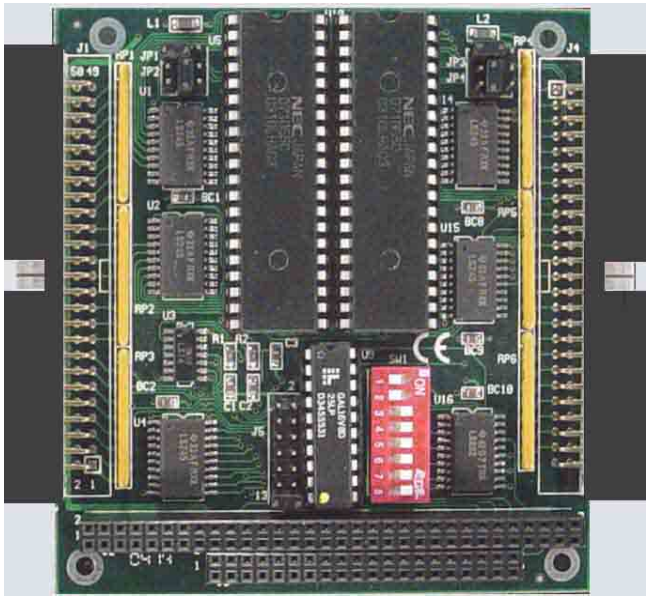
MSI-AX10420 48-Line Digital I/O CARD

FEATURES

- Forty-eight digital I/O lines in two groups of 24.
- Emulates a 8255 Programmable Peripheral Interface in mode 0.
- Buffered I/O lines for higher drive capacity.
- Interrupt capability selectable on bits 3 and 7 of Port C .
- Output status readback.
- Two output connectors are pin-compatible with OPTO-22 module racks.
- Small size PC/104 form factor (90 mm x 96 mm).
- One-year warranty from date of shipment.

DESCRIPTION

The MSI-AX10420 provides 48 TTL level I/O lines arranged in two 24-bit digital I/O groups. Each group emulates a 8255 PPI (programmable peripheral interface) operating in mode 0 with a higher output drive capacity than a standard 8255 device. Each group is divided into three 8-bit ports which can be configured to function as an input or an output. Bits 3 and 7 of port C can be configured to generate an interrupt on IRQ 5, 9(2), 10, 11, 12 or 15 with triggering on either the rising or falling edge. I/O is provided by two 50-pin connectors that are OPTO-22 compatible. The unit is an 8-bit stackthrough PC/104 with I/O mapped 16-bit addressing for which addresses A3 thru A9 are switch selectable.



SPECIFICATIONS

Digital I/O

Two groups of 24 emulating a 8255 PPI in mode 0. Each 24 line group is divided into three 8-bit ports, each port selectable as input or output.

Digital Inputs

Logic level 0: 0.8V max.
Logic level 1: 2.0V min.

Digital Outputs

Logic level 0: 0.5V max @ 24mA sink.
Logic level 1: 2.4V min @ 15mA source.

Interrupts

Bit 3 and 7 of Port C selectable for interrupt capability on IRQ 5, 9(2), 10, 11, 12 or 15 with triggering on rising or falling edges.

Status

Output status readback on output ports.

Environmental

Storage Temperature	-25 to 80° C.
Operating Temperature	0 to 60° C.

System Power Requirement

DC Voltage: +5V @ 400mA typical.

Size and Weight

90 mm x 96 mm , 0.1 Kg.

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