

MSI PC/104

Embedded PC Series

MSI-P560 96-Line

Digital I/O CARD

FEATURES

- ◆ Ninety-six digital I/O lines in three groups of 24 designed for high-density I/O applications.
- ◆ Emulates a 8255 Programmable Peripheral Interface in mode 0.
- ◆ Output status readback.
- ◆ Two 50-Pin flat cable I/O connectors.
- ◆ Small size PC/104 form factor (90 mm x 96 mm).
- ◆ Complete hardware documentation with schematics.
- ◆ Operating temperature range -25° C to 85° C.
- ◆ Two-year warranty from date of shipment.

DESCRIPTION

The MSI-P560 provides 96 TTL level I/O lines arranged in three 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 A, B and C. Ports A and B can be configured as 8-bit input or output. Port C can be configured in two groups of four bits as input or output. I/O is provided by two 50-pin connectors. The unit is an 8-bit stackthrough PC/104 with I/O mapped 16-bit addressing for which addresses A5 thru A15 are jumper selectable. Requires +5V only.

SPECIFICATIONS

PC/104 8-bit, stackthrough

Digital I/O

Three groups of 24 emulating a 8255 PPI in mode 0. Each 24 line group is divided into three 8-bit ports A, B and C. Ports A and B can be configured as 8-bit input or output. Port C can be configured in two groups of four bits as input or output.



Digital Inputs

10K Pull-ups on all I/O lines.
Logic level 0: 0.8V max.
Logic level 1: 2.0V min.

Digital Outputs

Logic level 0: 0.4V max @ 2.4 mA sink.
Logic level 1: 3.7V min @ 2.4 mA source.

Status

Output status readback on output ports.

Card Addressing

16-Bit I/O Mapped Base address set by option jumpers for A5 thru A15.

Connectors

Two (2) AMP 1-103311-0 or equivalent.

Option Jumpers

0.025" square posts, 0.1" grid

Environmental

Operating Temperature -25° C to 85° C.

System Power Requirement

DC Voltage: +5V @ 25 mA typical @ 8 MHz.

Size and Weight

90 mm x 96 mm , 0.1 Kg.



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