

# ***MSI PC/104 Embedded PC Series***

# ***MSI-P900 I/O PROTOTYPING CARD***

## **FEATURES**

- ◆ Provides rapid, simple implementation of user designs.
- ◆ 8-bit stackthrough PC/104 with I/O mapped 16-bit addressing.
- ◆ Fully decoded bi-directional 8-bit data bus (D0 thru D7).
- ◆ Four low-enable selects (CS0\* - CS3\*).
- ◆ Jumper selectable IOR\*, IOW\*, SA0 - SA3, interrupts IRQ3-IRQ7 & IRQ9, +5V, -5V, +12V, -12V and GND.
- ◆ Accommodates 8-pin thru 40-pin DIP sockets, SIPs, resistors, capacitors, etc.
- ◆ Provides for standard I/O connectors with 0.1" grid spacings (up to one each 34-pin and 40-pin).
- ◆ 100% testing and 48-hour burn-in.
- ◆ Two-year warranty from date of shipment.



## **DESCRIPTION**

The MSI-P900 is an 8-bit PC/104 stackthrough prototyping card for simple, rapid hardware implementation of user designs. The card is I/O mapped using 16-bit addressing and provides a fully decoded bi-directional 8-bit data bus (D0 - D7), four low enable chip selects (CS0\* - CS3\*) decoded from jumper selectable addresses A6 - A15. Also provided are jumper selectable IOR\*, IOW\*, SA0 - SA3, IRQ3 - IRQ7 & IRQ9, +5V, -5V, +12V, -12V and ground.

Sixty percent of the card accommodates user supplied 8-pin thru 40-pin wire-wrap

DIPs, SIPs, resistors, capacitors, transistors, etc., as well as standard I/O connectors (up to 40-pin) with 0.1" grid spacings. Solder pad connections are provided on the bottom surface for easy connections of devices to +5V and ground.

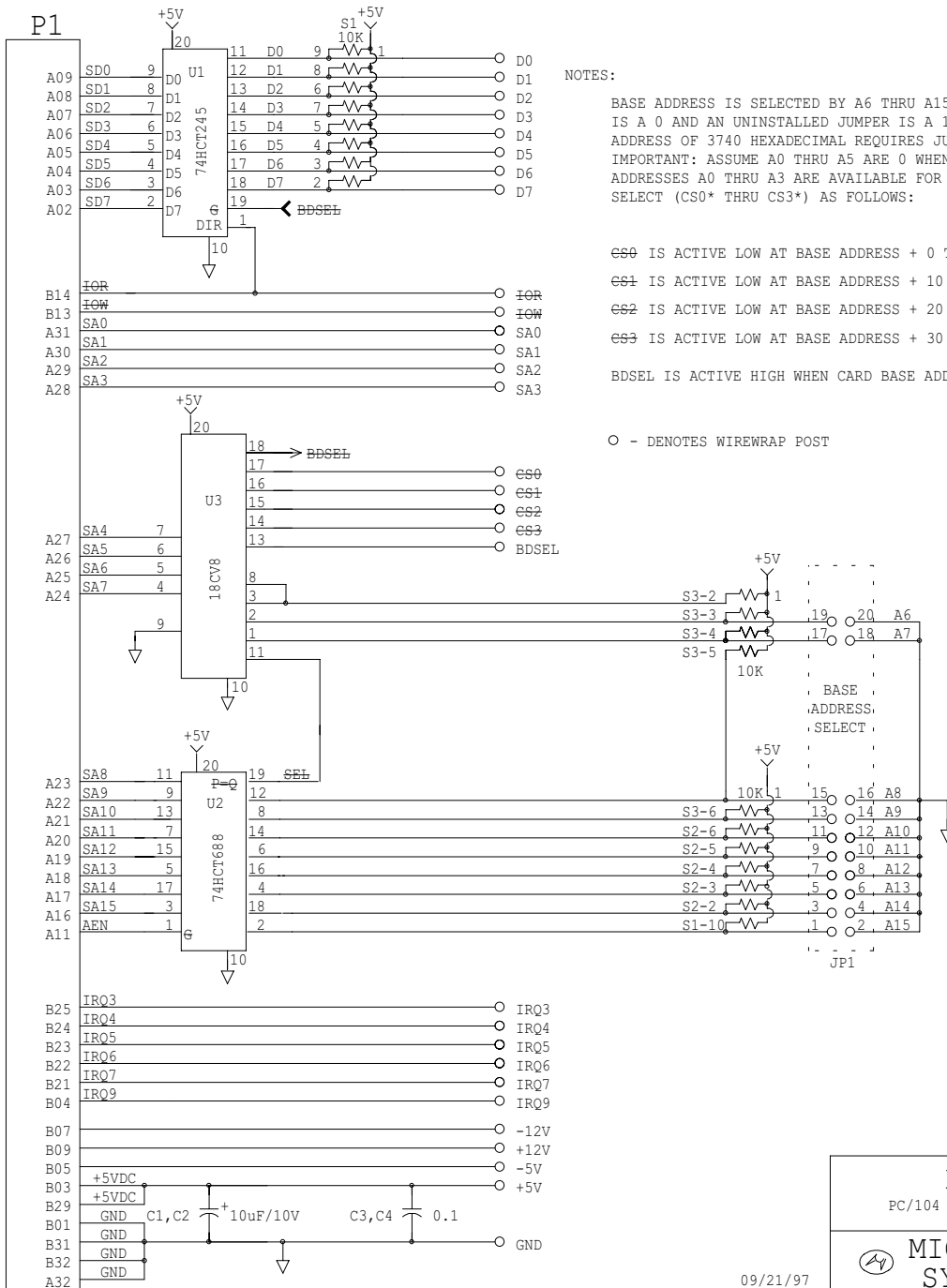
See schematic diagram on page 2.



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PC/104 BUS CONNECTOR



NOTES:

BASE ADDRESS IS SELECTED BY A6 THRU A15. AN INSTALLED JUMPER IS A 0 AND AN UNINSTALLED JUMPER IS A 1. FOR EXAMPLE, A BASE ADDRESS OF 3740 HEXADECIMAL REQUIRES JUMPERS A7, A11, A14 & A15. IMPORTANT: ASSUME A0 THRU A5 ARE 0 WHEN SPECIFYING A BASE ADDRESS. ADDRESSES A0 THRU A3 ARE AVAILABLE FOR USE WITH EACH VALID CHIP SELECT (CS0\* THRU CS3\*) AS FOLLOWS:

- CS0 IS ACTIVE LOW AT BASE ADDRESS + 0 THRU BASE ADDRESS + F
  - CS1 IS ACTIVE LOW AT BASE ADDRESS + 10 THRU BASE ADDRESS + 1F
  - CS2 IS ACTIVE LOW AT BASE ADDRESS + 20 THRU BASE ADDRESS + 2F
  - CS3 IS ACTIVE LOW AT BASE ADDRESS + 30 THRU BASE ADDRESS + 3F
- BDSEL IS ACTIVE HIGH WHEN CARD BASE ADDRESS IS VALID.

○ - DENOTES WIREWRAP POST

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