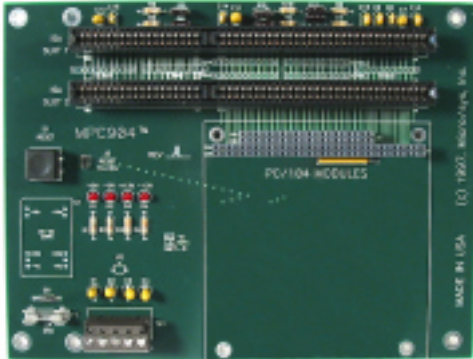# Mixed PC/104 and ISA Backplane Assembly MPC904



## Features

✓ Accepts two ISA cards

✓ 8-bit and 16-bit ISA cards supported

✓ Accepts PC/104 CPU + I/O card stack

✓ Single power connection provides power to ISA and PC/104 cards

✓ Optional DC/DC converter for +5V only operation

✓ Space for user-installed termination

The MPC904 is a two-slot ISA backplane with space for a 'stack' of PC/104 boards. With XT-compatible ISA cards, 8-bit PC/104 cards can be used. With AT-compatible ISA cards, 16-bit PC/104 cards can be used.

Circuitry on the MPC904 connects the ISA and PC/104 signals together such that the two architectures can be mixed in a single system. CPU and I/O boards can be located in either section. In a typical system, a 'stackthrough' PC/104 CPU card will drive one or 2 ISA I/O cards.

The MPC904 provides a mechanically sound platform for mixed bus system development, including an optional metal chassis.

Space is provided for user-installed AC or DC termination networks.

A power connector provides terminals for connecting +5V, -5V, +12V, and -12V as required. A DC-DC converter option can be installed to generate +12V, -12V, and -5V from the +5V supply.
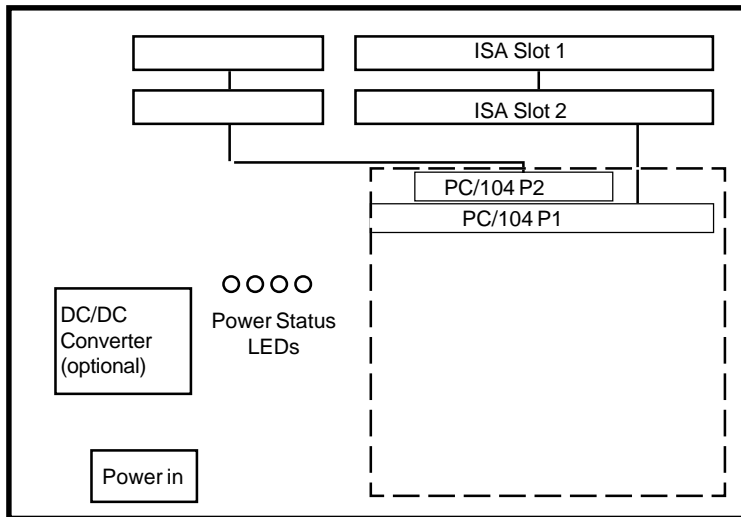
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### Software Support

### Compatible Hardware

*Any Micro/sys CPU with STACKTHROUGH PC/104 connector option*
   [See Section 1]
*Any ISA bus expansion card*

### Mounting/Packaging

*OEM chassis, ENC904*
   [Item above in Section 5]
*Chassis mounting*

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ISA Slot 1

ISA Slot 2

PC/104 P2

PC/104 P1

DC/DC
Converter
(optional)

Power Status
LEDs

Power in

## *Specifications:*

**Mechanical:**
- ❑ 5.665" x 7.45"
- ❑ Slots for two ISA boards
- ❑ Space for PC/104 card 'stack'
- ❑ Bottom PC/104 card must be 'stackthrough'
- ❑ Six mounting holes for #6 screws

**Power Requirements:**
- ❑ Determined by ISA and PC/104 boards (plus approximately 10ma per power supply for status LEDs)

**Environmental:**
- ❑ -40° - +85°C operating
- ❑ -25° - +85°C storage
- ❑ 5%-95% relative humidity, non-condensing

**PC/104 Interface:**
- ❑ 64-pin header for 8-bit bus signals
- ❑ 40-pin header for 16-bit bus signals

## *Ordering Information:*

| | |
|---|---|
| MPC904 | Mixed ISA and PC/104 mounting assembly |
| 904OPT1 | DC/DC converter installed |