

FEATURES

- Half size ISA Bus adapter card
- Allows PC/104 module usage in a standard ISA slot
- Permits "In Systems Emulation" for quick program development
- Supports 8- and 16-bit PC/104 modules
- Direct Bus-to-Bus interface
- Additional wire-wrap area for prototyping

The ISA-PCM is a standard half size ISA Bus card that supports 8- or 16-bit PC/104 modules. The purpose of this board is to allow PC/104 modules to be developed and tested on a PC ISA host system.

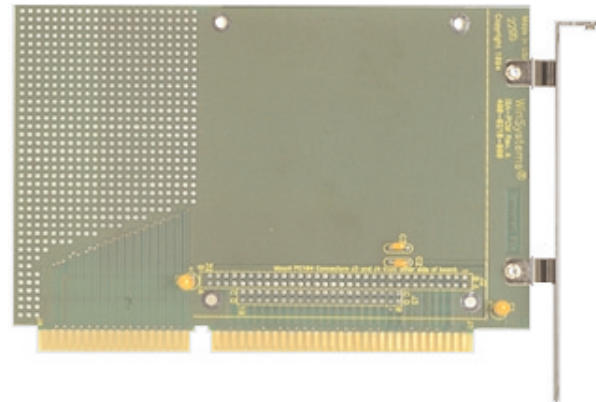
FUNCTIONAL CAPABILITY

Bus Architecture - The PC/104 Bus is a compact, embedded version of the ISA bus. PC/104 specifies two module versions, 8-bit and 16-bit, which corresponds to the PC and PC/AT bus implementations respectively. It offers full architecture, hardware and software compatibility with the PC Bus with 4 key differences:

- Extremely small form factor
- Unique, self-stacking bus
- Pin-and-socket bus connectors
- Lower bus drive requirements.

The ISA-PCM card permits PC/104 cards to be installed in a ISA bus system with no special intermediate buffer logic. All of the signals used on the PC/104 bus have the same purpose and function as their ISA bus counterparts. The direct Bus-to-Bus link operates at full system speed and does not require software modification or Wait States to communicate.

Applications - The ISA-PCM Bus Adapter's main application is for software development and debugging of PC/104 Bus systems. The PC/AT serves as an "In Systems Emulator" since it has direct access to the PC/104 modules operating at full bus speed. Therefore, the programmer has full access to a vast selection of assemblers, high-level languages, debuggers and other productivity tools. This can circumvent the expense of buying a PC/104 development system by allowing the designer to use an existing desk-top PC/AT system.



PC Interface Board - The ISA-PCM adapter board is a standard 16-bit short card and mounts in the backplane. The data transfer rate is at full PC/AT transfer rates, typically up to 8 MHz. Both memory and I/O transfers are supported with full DMA and interrupt support.

Configuration - A PC/104 module is plugged into the connector on the ISA-PCM and can be bolted down if desired. Any I/O cables to the PC/104 module should be attached and then the unit can be plugged into a open 16-bit ISA slot.

Additional Workspace - The ISA-PCM also provides a wire-wrap area for prototyping. It allows users to construct experimental and application specific interfaces in a convenient area adjacent to the PC/104 module.

The prototyping area consists of a 0.100 inch grid of plated-through holes that will accept 0.025 inch square posts, discrete components, standard 8-, 14-, 16-, 24-, 28- and 40-pin solder or wire-wrap DIP sockets and connectors.

SPECIFICATIONS

Mechanical
Dimensions: 4.5" x 7.1"

Environmental
Operational Temperature: -40°C to +85°C
Non-condensing relative humidity: 5% to 95%

ORDERING INFORMATION

ISA-PCM ISA to PC/104 Adapter