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MIC-2000

PC-Based Modular Industrial Controller



Innovative PC-Based Industrial Computer

The MIC-2000 series is a family of rugged and flexible PC compatible industrial computers. Based on open ISA-bus passive backplane technology, its flexible modular system design makes upgrades and maintenance simple. With superior mechanical reliability and bus extension capabilities, the MIC systems are ideal for use in applications where a harsh or vibration-prone environment would prohibit the use of a standard office PC or compatible.

Open ISA-bus Architecture

The MIC-2000 systems use passive backplane technology as a replacement for motherboards. This modular technology enables quick and easy CPU and peripheral card replacement with virtually no interruption of operations. Open ISA-bus architecture provides greater flexibility when you find it necessary to choose appropriate PC-compatible products for your specific application requirements. The MIC-2000 is structurally designed to use general PC-compatible products.

Flexible Modular Design

For the utmost convenience and accessibility, the MIC-2000 series uses a modular system for adding peripherals. Adding disk drives, Flash memory, network and other peripherals is simplified via the ISA-bus backplane or the PCMCIA bus. The MIC series designs emphasize modularity, ease of use, secure peripheral integration, and software compatibility.

Front Panel I/O Access

The MIC-2000 series provides direct access to the I/O interface, front panel connectors and plug-in terminals. It has the same design structure that is used by major industrial controllers. This feature makes field wiring and maintenance as easy as PLC.

Reliable and Easy Module Mounting

All MIC I/O modules are secured on all four sides with mechanical protection to ensure their ability to withstand the shock and vibrations commonly found in industrial environments. In

addition, the extractor handle design allows easy removal and installation of modules to reduce system MTTR.

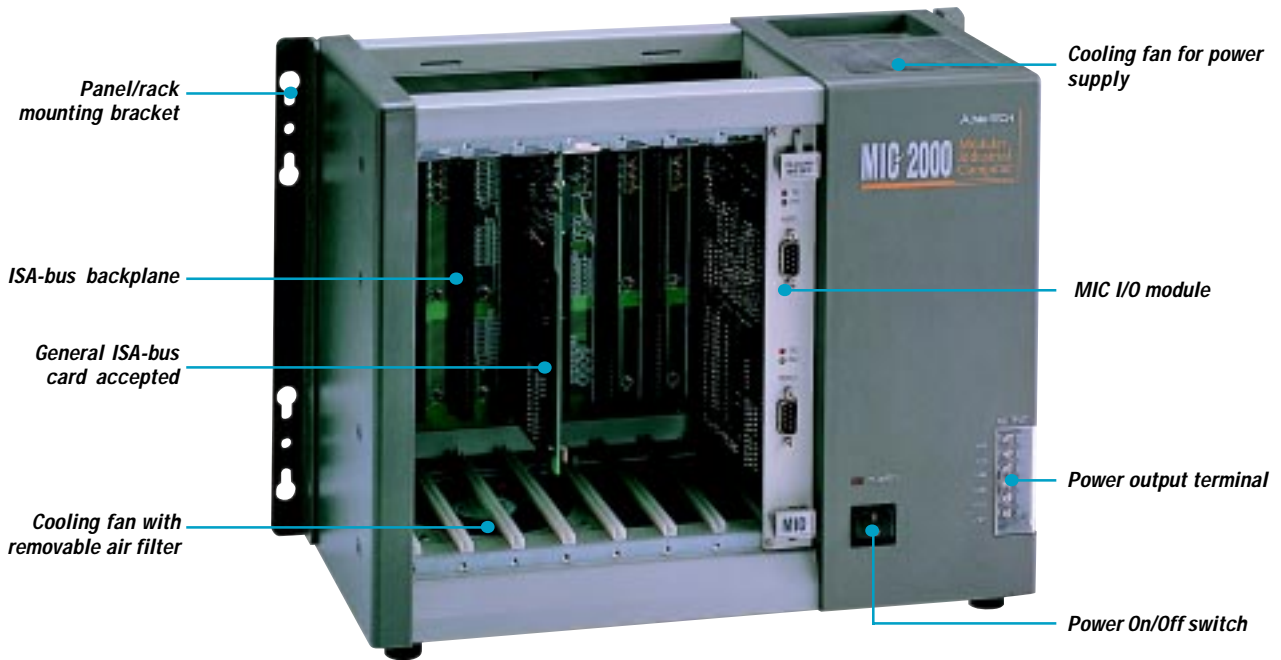
Features

- Panel or 19" rackmount
- 8 or 11-slot ISA-bus passive backplane
- Modular design shortens MTTR
- Front panel I/O access
- Direct, PLC-type field wiring
- 4-point mounting scheme insulates modules against vibration
- Extractor handle design for easy module installation and removal
- Positive air pressure in chassis repels dust by dual push/pull fans
- Field removable air filter
- Field replaceable 250-watt power supply

Applications

- Supervisory control and data acquisition
- Embedded machine control
- Motion control and robotics
- Data communication processors
- Automatic test and navigation systems
- Military ground support systems
- Experimental systems for research





General Specifications

- **Construction:**
Heavy-duty steel chassis
- **Cooling system:** One 32 CFM cooling fan (flow out) on the upper side for the power supply, another 86 CFM fan (flow in) on the lower side with an air filter
- **Switches:**
Power On/Off switch with LED indicators
- **Power output:**
Terminals for +5 V, +12 V_{DC} power source output on the front panel
- **Dimensions:**
MIC-2000/8 (8-slot):
345 mm (W) x 162 mm (D) x 266.5 mm (H) (13.6" x 6.4" x 10.5")
MIC-2000/11 (11-slot):
423 mm (W) x 162 mm (D) x 266.5 mm (H) (16.7" x 6.4" x 10.5")
- **Weight:**
MIC-2000/8: 6.0 kg (13.2 lbs)
MIC-2000/11: 7.5 kg (16.5 lbs)

Passive Backplane

- **Slots:** 8 or 11 half-size ISA-bus slots
- **PC board:** 4-layer PCB with ground and power planes for reduced noise and lower power supply impedance

Power Supply

- **Output rating:** 250 W
- **Input voltage:** 90 ~ 130 V_{AC} or 180 ~ 264 V_{AC} @ 47 to 63 Hz, switchable
- **Output voltage:**
+5 V @ 25 A, +12 V @ 10 A;
- 5 V @ 0.5 A, -12 V @ 0.5 A
- **MTBF:** 50,000 hours at 70% load
- **Safety:** TÜV approved (meets UL/CSA)
- **EMI:** Meets FCC/VDE Class A

Mechanical and environmental specifications

- **Operating temperature:** 0 ~ 50° C (32 ~ 122° F)
- **Relative humidity:** 10% to 95% @ 40° C, non-condensing
- **Vibration (operating):**
- 5 to 17 Hz, 0.1" double amplitude displacement
- 17 to 500 Hz, 1.5 G acceleration peak to peak
- **Shock:**
10 G acceleration peak (11 msec. duration)





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