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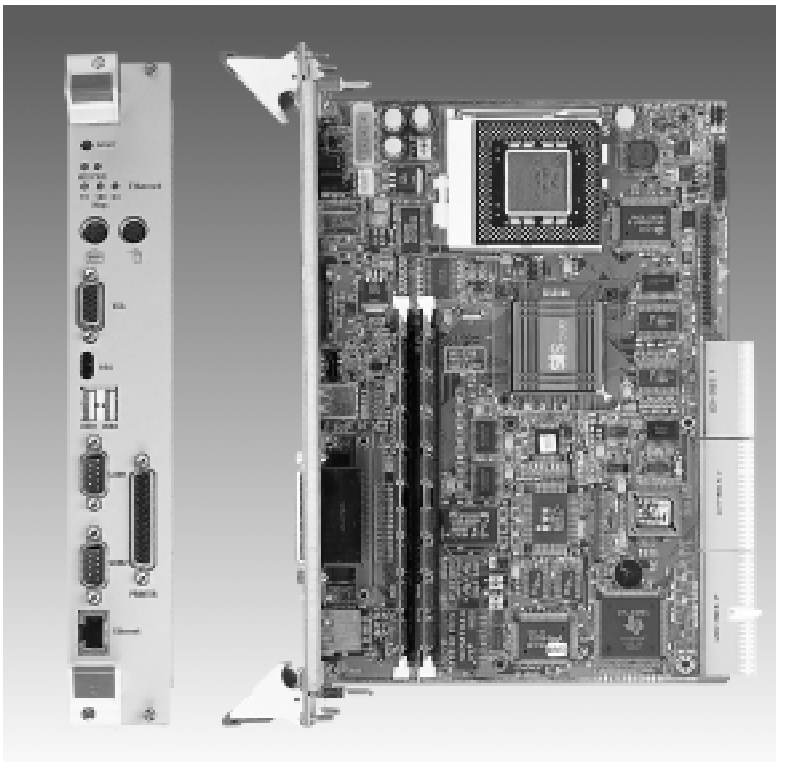
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Find the *Advantech MIC-3355* at our website: ***Click HERE***

MIC-3355

6U CompactPCI Pentium® MMX SBC with VGA & LAN



Features

- Supports almost all Socket 7 processors
- 2 DIMM sockets support up to 256 MB SDRAM
- Onboard 10/100Base-TX Fast Ethernet with RJ-45 connector
- Onboard high-performance VGA supports resolutions up to 1600 x 1200
- Connection to four Ultra DMA/33 high-speed IDE devices via J3 connector
- Supports IDE Flash Disk (PCD-1230A)
- Drives seven PCI peripherals with maximum six bus masters
- Onboard fast IrDA

Introduction

The MIC-3355 is a 6U CompactPCI single board computer. It has all the functions of an industrial computer on a single board with the rugged Eurocard form factor. The MIC-3355 accepts a variety of CPUs and standard SDRAM, providing users with a cost-effective and flexible system.

Complete SBC Functions

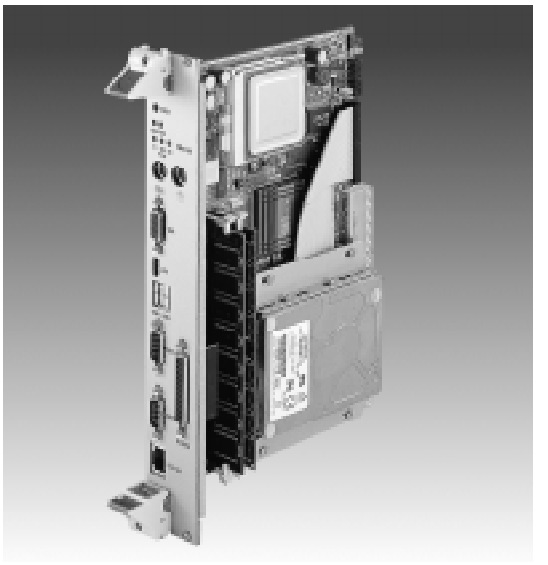
The MIC-3355 offers all the functions of an industrial computer, including onboard high-performance VGA, one Fast Ethernet interface, two serial ports, two USB ports, one parallel port, one PS/2 keyboard connector and one PS/2 mouse connector. The front panel has all the I/O connectors and the reset button, as well as Ethernet, HDD, and power status LEDs.

The built-in high-speed PCI IDE controller provides two separate IDE channels with PIO mode 4 and Ultra DMA/33 mode. Users can connect up to four IDE devices and two FDDs to the backplane via the user-defined J3 connector on the MIC-3355. The primary IDE channel is also available via an onboard connector. A pair of mounting brackets for installing a 2.5" HDD are mounted on the MIC-3355.

Meets Industrial Application Requirements

The MIC-3355 is designed for use in mission-critical applications. It accepts DiskOnChip® 2000 single chip Flash disks for diskless operation. It also features power management to minimize power consumption. A watchdog timer can automatically reset the system or generate an interrupt if the system stops due to a software bug or EMI. The two-layer front panel design complies with IEEE 1101.10.

Connectors are firmly screwed to the front panel, and the replaceable shielding gasket is attached to the panel edge. This reduces emissions and gives better protection against external interference.



The MIC-3355 accepts a 2.5" HDD

Specifications

Standard SBC Functions

- **CPU**: Intel® Pentium® MMX up to 233 MHz, NS 6x86MX, Winchip, AMD K5, K6, up to 333 MHz
- **BIOS**: Award 2 MB Flash memory
- **Chipset**: SiS 5598
- **Front side bus clock:** 66 MHz
- **Bus interface:** 32-bit, 25 ~ 33 MHz, PICMG 2.0 compliant
- **2nd level cache**: Onboard 512 KB Pipeline Burst SRAM
- **RAM**: Two 168-pin DIMM sockets support up to 256 MB SDRAM
- **Enhanced IDE interface**: Handles up to 4 IDE large HDDs or other IDE devices via J3 connector. Supports PIO mode 4 and DMA/33 mode. A primary IDE device is available on-board
- **Floppy disk drive interface**: Supports up to two floppy disk drives. Available via J3 connector
- **Parallel port**: Configured to LPT1, LPT2, LPT3, or disabled. Supports multimode parallel (SPP/EPP/ECP) port
- **Ethernet:** RTL8139A controller, 10/100Base-TX with RJ-45 connector
- **Serial ports**: One RS-232, one RS-232/422/485, and two USB ports
- **Watchdog timer**: Can generate a system reset, or IRQ 15. Software enabled/disabled. Time interval from 1 to 63 seconds. Jumperless with run-time setup
- **Keyboard & mouse connectors**: Supports PS/2 keyboard and PS/2 mouse
- **Infrared port:** Fast IrDA. Transfer rates up to 4 Mbps. I/O port programmable to COM1 (3F8), COM2 (2F8), COM3 (3E8), or COM4 (2E8)
- **PCI-to-PCI bridge:** Texas Instruments PCI2031, drives seven peripherals with maximum six secondary bus masters

PCI SVGA Interface

- **Display memory:** 0.5 to 4 MB shared system SDRAM, user-defined
- **Display resolution:** Supports non-interlaced CRT monitor resolutions up to 1600 x 1200 @ 256 colors, 16 million colors up to 1024 x 768

Mechanical and Environmental Specifications

- **Max. power requirements:** +5 V (4.75 ~ 5.25 V) @ 5.5 A
- **Operating temperature:** 0 ~ 60° C (32 ~ 140° F)
- **Storage temperature:** -20° C ~ 70° C (-4° F ~ 158° F)
- **Humidity (operating and storage):** 5 ~ 95% (non-condensing)
- **Size:** 233.35 x 160 mm (6U), 2-slot (8 TE) width
- **Weight:** 0.65 kg (1.4 lb)
- **Shock:** 20 G (operating); 50 G (storage/transit)
- FCC Class A; CE Mark to CISPR 11 Class A

J3 Connector Pin Definitions

	A	B	C	D	E
19	IDE2D3	IDE2D6	IDE2D2	IDE2D10	IDE2D14
18	IDE2D8	IDE2D5	IDE2D1	IDE2D11	IDE2D15
17	IDE2D9	IDE2D4	IDE2D0	IDE2D12	IDE2D13
16	IDE2D7	IDE2CS0-	IDE2IOR-	IDE2CS1-	IDE2RDY
15	IDE2DRQ	IDE2ACK-	IDE2SA2	IDE2IRQ	IDE2IOW-
14	GND	GND	IDE2SA1	GND	IDE2SA0
13	GND	GND	GND	GND	GND
12	IDE1D0	IDE1D2	IDE1D4	IDE1D7	GND
11	IDE1D1	IDE1D3	IDE1D8	IDE1D6	IDE1D12
10	IDE1D5	IDE1D9	IDE1D10	IDE1D11	IDE1D13
9	IDE1D15	IDE1D14	IDE1DRQ-	IDE1CS1-	IDE1IOR-
8	IRQ14	IDE1ACK-	N/C	IDE1SA2	IDE1IOW-
7	IDE1LED	GND	IDE1RST-	IDE1RDY	IDE1CS0-
6	GND	GND	GND	IDE1SA0	IDE1SA1
5	GND	GPIO5	IOCHK-	SDCLK1	SDDAT1
4	N/C	GND	N/C	GND	GND
3	DSKCHG-	MOTEA-	STEP-	SIDE1-	RDATA-
2	DRVA-	MOTEB-	DVSL-	WPT-	TK00
1	INDEX-	DRVB-	FDIR-	WGATE-	WDATA

Ordering Information

- **MIC-3355**: CompactPCI Pentium®-based ISBC with VGA/LAN, utility CD-ROM disc, manual, flat cable, and HDD mounting brackets
- **PCD-1230A**: IDE Flash disk module (4/8/16 MB options)

Note: All specifications are subject to change without notice

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