

Features

- Socket 370 for Intel® Pentium® III and Celeron™ processors
- Intel® 810 chipset with integrated AGP high performance VGA display
- Two DIMM sockets support up to 512 MB SDRAM
- Supports Ultra2 SCSI interface
- Dual on-board 10/100Base-TX Fast Ethernet with RJ-45 connectors
- Connection to four Ultra DMA/66 high speed IDE devices via J3 connector
- Accepts CompactFlash memory card on the rear I/O transition board
- One PCI-to-PCI bridge drives up to 7 CompactPCI™ slots
- Compact single slot wide
- Optional 2-slot width for carrying a 2.5" HDD and a super slim FDD

Introduction

The MIC-3365 is a 6U CompactPCI™ single board computer. Designed for socket 370 Pentium® III and Celeron™ processors, the MIC-3365 is a cost-effective solution for performance demanding applications. The MIC-3365 has many functions on a single board within a single-slot width, saving valuable CompactPCI slots for peripheral cards.

High Performance Yet Compact Celeron™ Processor

The MIC-3365 accepts an Intel® Pentium® III or Celeron™ processor with 370-pin PPGA package. The Pentium® III processor has on-chip 250 KB and the Celeron™ processor has on-chip 128 KB second level cache memory providing high performance with low cost. The MIC-3365 supports a 66/100 MHz CPU bus clock, allowing upgrade to future higher speed CPUs.

SCSI, Dual LANs and PCI-to-PCI Bridge

The dual on-board fast Ethernet channels provide teaming functions such as Adapter Fault Tolerance, Adaptive Load Balancing and Fast EtherChannel® to increase transmission throughput and reliability. An Ultra2 SCSI interface supports up to 80 MB/S data transfer rates, and can connect up to 16 LVD devices. The MIC-3365 also provides a PCI-to-PCI bridge to drive up to 7 PCI master devices.

Complete I/O Functions

The MIC-3365 offers all the functions of an industrial computer with the rugged Eurocard form factor. It offers an AGP VGA display, two serial ports, two USB ports, two Ethernet interfaces, one parallel port, one SCSI interface, and one PS/2 keyboard/mouse connector. Standard connectors for all the functions are available on both the front panel and rear panel. The front panel also has LEDs for power status, HDD operation, SCSI operation, Ethernet communication, as well as a reset button.

The built-in high-speed PCI IDE controller provides two separate IDE channels with Ultra DMA/66 modes. A 2-slot wide option (MIC-3365F) comes with a bracket to carry a 2.5" hard disk drive and a slim-type floppy disk drive.

An optional rear transition board (MIC-3032) can be used to connect all the inputs and outputs on the rear panel. It also supports one CompactFlash disk.

Meets Industrial Applications Requirements

The MIC-3365 is designed for use in mission critical applications. It accepts a CompactFlash memory card on the rear transition board, thus eliminating the need to use a fragile rotating hard drive. A watchdog timer can automatically reset the system or generate an interrupt if the system stops due to a program 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-3365 with on-board HDD and FDD



Specifications

Standard SBC Functions

- **CPU:** Intel® Pentium® III 700 MHz and up, Celeron™ 500 MHz and up
- **BIOS:** Award BIOS (Intel® FWH 4 Mb)
- **Chipset:** Intel® 810
- **Front side bus clock:** 100/66 MHz
- **Bus interface:** 32-bit, 33 MHz, PICMG 2.0 compliant
- **2nd level cache:** CPU built-in 128 KB
- **RAM:** Two 168-pin DIMM sockets support up to 512 MB SDRAM
- **Enhanced IDE interface:** Handles up to 4 IDE devices. Supports PIO mode 4, DMA/33, and DMA/66 mode
- **Floppy disk drive interface:** Supports up to two floppy disk drives
- **Parallel port:** Supports multimode parallel (SPP/EPP/ECP) port
- **Ethernet:** Two Intel® 82559 Fast Ethernet controller chips, 10/100Base-TX with RJ-45 connectors
- **Serial ports:** Two RS-232 ports with 16550 UARTs. MIC-3365 provides one serial port, and MIC-3365F provides two serial ports
- **USB interface:** Two USB ports, one on the front panel
- **Watchdog timer:** Can generate a system reset or IRQ 15. Software enabled/disabled. Time interval is from 1 to 63 seconds. Jumperless with run-time setup
- **Keyboard/mouse connectors:** One 6-pin mini-DIN connector on the front panel
- **PCI-to-PCI bridge:** One Intel® DEC 21150 controller chip, drives up to 7 bus master peripherals

AGP VGA Interface

- **Controller:** Chipset built-in VGA display
- **Display resolution:** Supports non-interlaced CRT monitor resolutions up to 1024 x 768 x 16-bit color for 3D graphics, and 1600 x 1200 x 8-bit color for 2D graphics. 24-bit color up to 1280 x 1024

Ultra 2 SCSI Interface

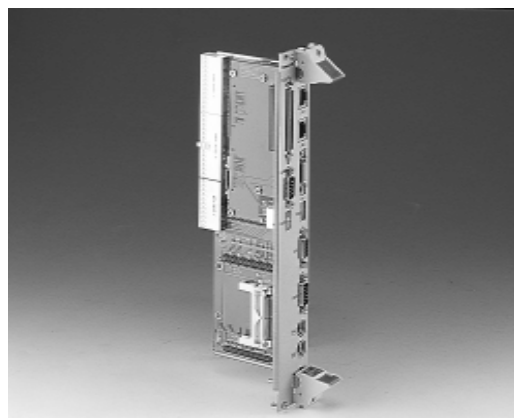
- **Controller:** Symbios SYM53C895
- Performs Ultra2 SCSI LVD synchronous transfers as fast as 80 MB/s
- Connects to rear panel via J5 connector

Rear Transition Board

- **MIC-3302: Single slot rear transition board**
 - Rear panel I/O connectors: PS/2 keyboard and mouse, COM1, VGA, dual Ethernet ports, 1 x USB
 - On-board connectors: 2 x IDE connectors, floppy disk connector, CompactFlash socket, SCSI interface
- **MIC-3302F: 2-slot rear transition board**
 - Rear panel I/O connectors: PS/2 keyboard and mouse, 2 x serial ports, VGA, dual Ethernet ports, 2 x USB, SCSI interface
 - On-board connectors: 2 x IDE connectors, floppy disk connector, CompactFlash socket, SCSI interface
 - On-board 2.5" HDD mounting bracket

Mechanical and Environmental Specifications

- **Operating temperature:** 0° ~ 60° C (32° C ~ 140° F)
- **Storage temperature:** -20° ~ 70° (-4° ~ 158° F)
- **Humidity (operating and storage):** 5 ~95% (non-condensing)
- **Size:** 233.35 x 160 mm (6U), 1-slot (4 TE) or 2-slot (8 TE) width
- **Weight:** 0.8 kg (1.8 lb)
- **Shock:** 20 G (operating); 50 G (storage/transit)
- **Random vibration:** 1.5 Grms



The MIC-3302F 6U rear transition board

Ordering Information

- ❑ **MIC-3365:** Single-slot 6U CompactPCI™ Socket 370 processor board with single PCI-to-PCI bridge, VGA/dual LAN/SCSI, utility CD-ROM disc, manual
- ❑ **MIC-3365F:** Two-slot 6U CompactPCI™ Socket 370 processor board with single PCI-to-PCI bridge, VGA/dual LAN/SCSI, utility CD-ROM disc, HDD and FDD mounting bracket, manual
- ❑ **MIC-3302:** Single-slot 6U rear transition board. Provides connection to KB/MS, 1 x RS-232, 1 x USB, VGA, and 2 x LAN ports on rear panel. On-board connectors for 2 x IDE, floppy, SCSI, and CompactFlash card
- ❑ **MIC-3302F:** 2-slot 6U rear transition board. Provides connection to KB/MS, 2 x RS-232, 2 x USB, SCSI, VGA, and 2 x LAN ports on rear panel. On-board connectors for 2 x IDE, floppy, SCSI, and CompactFlash card. 1-slot wide 2.5" HDD mounting bracket