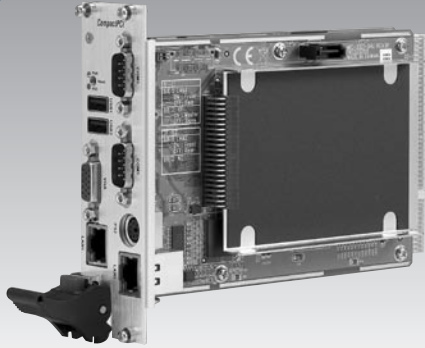


MIC-3321

3U CompactPCI Pentium M 2.0G High-performance Controller

NEW



Features

- Built-in Intel® Pentium® M 760 2.0G processor with 2 MB L2 Cache
- Mobile Intel 915GM express chipset
- Supports up to 1GB DDR2 533/400 SDRAM soldered on board
- Extended operating temp: -25 ~ 70° C (Optional: MIC-3321C only)
- Dual Giga LAN on PCI-Express
- High-performance Intel Graphics Media Accelerator 900 VGA display
- Onboard CompactFlash® disk socket
- Onboard 2.5" HDD support
- Rear I/O signal support for easy wiring

Introduction

The MIC-3321 3U is a CompactPCI system controller board that combines the performance of Intel's Mobile Pentium M 760 2.0GHz processor with the high integration of the 915GM chipset and the I/O Controller Hub ICH6. The low power of the Intel Mobile Celeron® M makes it possible to work with high extended temperature ranges. The directed soldered CPU and memory provide less weight and a higher shock/vibration resistance than socket devices.

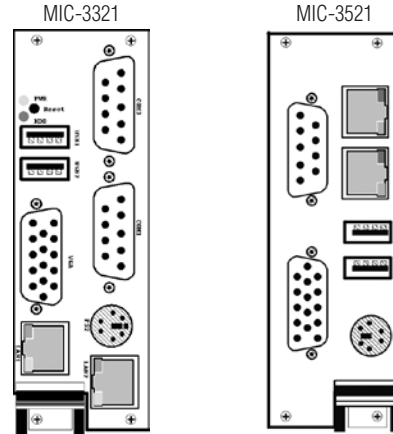
MIC-3321 is a powerful 3U CompactPCI Controller that fulfills your requirements in mission critical applications, such as military defense, transportation, traffic control, test and measurement (T&M) as well as critical data acquisition & control applications.

Specifications

| | | |
|-----------------|---|--|
| CPU | MIC-3321: Intel Pentium M 760 2.0 GHz with 2 MB L2 cache | |
| | MIC-3321C: Intel Celeron M Ultra Low Voltage 373 1.0 GHz with 512 KB L2 cache | |
| Chipset | Intel 915 GM (GMCH) + Intel 82801FBM (ICH6-M) | |
| BIOS | Award 4 MB Flash | |
| Bus | Front Side Bus | 533 MHz (Intel Pentium M 760 2.0 GHz CPU) 400 MHz (Intel Celeron M Ultra Low Voltage 373 1.0 GHz CPU) |
| | PCI Bus | PCI-to-PCI Bridge: PERICOM PI7C8150 7 x 32bit/33MHz CompactPCI bus Master interface 3.3 V/5 V VIO adjustable |
| Memory | Directed Soldered 512 MB DDR2 SDRAM | |
| Graphics | Controller: Intel Graphics Media Accelerator 900 VRAM: DVMT3.0 128MB | |
| | Resolution: Up to 2048 x 1536 with 32-bit color at 75 Hz | |
| Ethernet | Interface: 10/100/1000Base-TX Gigabit Ethernet | |
| | Controller: 2 x Intel 82573E/L PCI Express Gigabit Ethernet Controller | |
| | Connector: 2 x RJ-45 Supports Pre-boot Execution Environment (PXE) | |

| | |
|-----------------------|--|
| Serial | Interface: RS-232 |
| | Controller: 2 x 16C550 Compatible |
| | Data Bits: 5, 6, 7, 8 |
| | Stop Bits: 1, 1.5, 2 |
| | Parity: None, Even, Odd |
| | Speed (bps): 50 ~ 115.2K |
| | Data Signal: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND |
| P-IDE | Connector: 2 x DB9 male Two as front I/O, one as rear I/O |
| | One channel P-IDE Supports PIO mode 4 (16.67MB/s data transfer rate) and ATA 33/66/100 (33/66/100MB/s data transfer rate) |
| | 1 x CompactFlash Socket Type II |
| | 1 x 44-pin 2.5" HDD connector |
| SATA | SATA interface with data transfer rate up to 150MB/s |
| | 1 x External SATA connector |
| USB | 4 x USB 2.0 channels up to 480Mbps, 2 as front I/O, 2 as rear I/O |
| PS/2 | PS/2 for keyboard and mouse legacy support |
| Watchdog Timer | 0 ~ 64s, 0.25s step, generate reset signal |
| Hot Swap | Support for all signals to allow peripheral boards to be hot swapped. The individual clocks for each slot and access to the backplane ENUM# signal comply with the PICMG 2.1 Hot Swap specification. (PCI to PCI bridge GPIO3) |

Front View of MIC-3321



| | | |
|--|--|--|
| Front Panel Functions | 4HP Board | 1 x VGA-CRT 15-pin D-SUB connector |
| | | Ethernet: 1 x RJ-45 connector with integrated LEDs |
| | | USB: 2 x 4-pin connectors |
| | | Reset: Reset button, guarded |
| | LED: Power, HDD | |
| 8HP Board (Additional to 4HP) | COM1: 1 x DB9 RS-232 connector | |
| | COM3: 1 x DB9 RS-232 connector | |
| | PS/2: 1 x PS/2 connector for keyboard and mouse | |
| Ethernet: 1 x RJ-45 connector with integrated LEDs | | |
| Rear I/O via J2 | 2 x USB 2.0 channels | |
| | 2 x Gigabit Ethernet channels with LED (shared with front I/O) | |
| | 1 x COM port | |
| | 1 x VGA-CRT channel (shared with front I/O) | |
| | 1 x PS/2 keyboard/mouse channel (shared with front I/O) | |
| Compliance | PICMG 2.0 Rev. 3.0 compatible | |
| | CompactPCI Hot Swap Specification PICMG 2.1 R2.0 | |
| Environment | Operating Temperature | 0 ~ 50° C (Pentium M 2.0G CPU) |
| | | 0 ~ 50° C (Celeron M 1.0G CPU) |
| | | -25 ~ 70° C (Optional: Celeron M 1.0G CPU only) |
| Storage Temperature | -40 ~ 80° C | |
| Physical | Dimensions (W x H) | 160 x 100 mm (3U) |
| | Weight | 0.6 Kg |
| Rear Transition Board | P/N | MIC-3521 |
| | Width | 8HP |

Ordering Information

- **MIC-3321** Pentium M 2.0 GHz, 2MByte L2 cache, 512 MByte soldered DDR2 SDRAM, 8 HP width
- **MIC-3321C** Celeron M 1.0 GHz, 512KByte L2 cache, 512 MByte soldered DDR2 SDRAM, 8 HP width
- **MIC-3521** Rear I/O Transition Board for MIC-3321 series