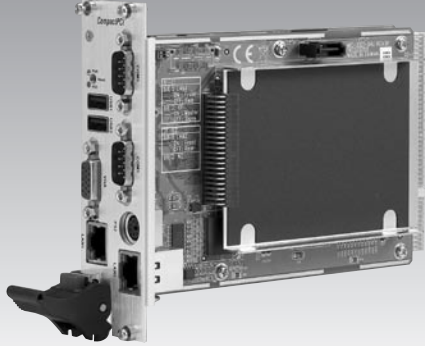


# MIC-3321

## 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.

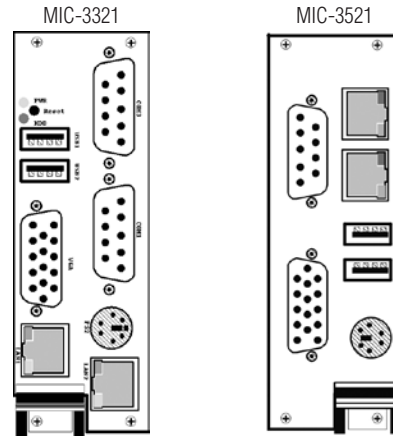
### Specifications

<b>CPU</b>	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	
<b>Chipset</b>	Intel 915 GM (GMCH) + Intel 82801FBM (ICH6-M)	
<b>BIOS</b>	Award 4 MB Flash	
<b>Bus</b>	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
<b>Memory</b>	Directed Soldered 512 MB DDR2 SDRAM	
<b>Graphics</b>	Controller: Intel Graphics Media Accelerator 900 VRAM: DVMT3.0 128MB	
	Resolution: Up to 2048 x 1536 with 32-bit color at 75 Hz	
<b>Ethernet</b>	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)	

<b>Serial</b>	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
	Connector: 2 x DB9 male Two as front I/O, one as rear I/O
<b>P-IDE</b>	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
<b>SATA</b>	SATA interface with data transfer rate up to 150MB/s
	1 x External SATA connector
<b>USB</b>	4 x USB 2.0 channels up to 480Mbps, 2 as front I/O, 2 as rear I/O
<b>PS/2</b>	PS/2 for keyboard and mouse legacy support
<b>Watchdog Timer</b>	0 ~ 64s, 0.25s step, generate reset signal
<b>Hot Swap</b>	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)

<b>Front Panel Functions</b>	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			
<b>Rear I/O via J2</b>	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)		
<b>Compliance</b>	PICMG 2.0 Rev. 3.0 compatible		
	CompactPCI Hot Swap Specification PICMG 2.1 R2.0		
<b>Environment</b>	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		
<b>Physical</b>	Dimensions (W x H)	160 x 100 mm (3U)	
	Weight	0.6 Kg	
<b>Rear Transition Board</b>	P/N	MIC-3521	
	Width	8HP	

## Front View of MIC-3321



## 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