

# MIC-3121

## 4U CompactPCI® with 7 Peripheral Slots



### Features

- 4U height rackmount CompactPCI supports 7 peripheral slots
- Optional 4-slot PCI hybrid box for flexible configuration
- Selectable high performance or low power consumption CPU
- Lockable power on/off switch prevents accidental access
- Very low noise cooling fan for quiet environments
- Easily-accessible cooling fan and air filter for system maintenance
- All front-accessible connectors/cables for easy wall mounting



### Introduction

The MIC-3121 CompactPCI is Advantech's new generation IPC to meet the CompactPCI standard; it offers a 4U height rackmount platform, with compact features, and is the most compact device in its price range. The MIC-3121 measures 482 x 177 x 310 mm, which is the standard 4U height rackmount CPCI system. With seven CPCI expansion slots or three CPCI expansion slots plus an optional four slot PCI hybrid box, users have the flexibility to configure their own system. With all these features the MIC-3121 is an open platform with a front access modular design, and high reliability which makes it the perfect choice for industrial applications where high availability matters.

The MIC-3121 has two levels of CPU choice. One is the Intel Core i3-3217UE CPU for high performance applications, and the other is the Intel Atom N455 CPU which is the most cost effective for low power consumption applications.

### Specifications

Power Supply	Power Type	ATX
	Input Voltage	100~240 V <sub>AC</sub>
	Wattage	300W
	On/Off Switch	Lockable Toggle Switch
Backplane	System Slot	1 on the right
	Peripheral Slot	7 slots
	PCI Bus	32-bit 33 MHz
Dimensions (W x H x D)	482 x 177 x 310 mm (18.97" x 6.96" x 12.2")	
Weight (kg)	9.65 Kg	
Temperature	Operating	0~50 °C
	Non-operating	-20~60 °C
Humidity (non-condensing)	Operating	10~85% @ 40 °C
	Non-operating	10~95% @ 40 °C
Vibration (5~500 Hz)	Operating	2Grms (without HDD)
	Non-operating	2G
Shock (11ms)	Operating	10G
	Non-operating	30G
Certification	CE, FCC, CCC, UL, RoHS	
Compliance	PICMG 2.0 Rev. 3.0	

### Ordering Information

Part Number	Description
MIC-3121-00-AE	Modular Industrial Chassis 4U, 7 slots, w/ 300W
MIC-3121-L1-AE	4U, 7 slots, w/ 300W, MIC-3325N
MIC-3121-L2-AE	4U, 7 slots, w/ 300W, MIC-3325D
MIC-3121-H1-AE	4U, 7 slots, w/ 300W, MIC-3328 w/ 3217UE
MIP-3104-AE	MIC-3100 PCI Hybrid Box
MIC-3121-H2-AE	4U, 7 slots, w/ 300W, MIC-3328 w/ 3517UE

### Optional Accessories

Part Number	Description
1990024038N000	Fan filter 430 x 10 x 10 mm3 (for MIC-3121 only)
1750002440	Bottom side fan 60 x 60 x 13 mm3
1750007398-01	Top blower 51 x 51 x 15 mm3
1960064154N001	4HP bracket cover
1960064155N001	8HP bracket cover

## CPU Options

L1	Processor	CPU	Intel Atom N455, 1.66GHz
		Memory	2GB Onboard
		Storage	1 x CompactFlash Type II 1 x 2.5" SATA HDD
	Front I/O	VGA	1 x DB15 port
		Ethernet	2 x 10/100/1000 Mbps, RJ45 connector
		USB 2.0	3 x Type A
		Serial	2 x RS-232, DB9 connector
		PS/2	1
	Operating System	Windows	XP, XPE, 7
L2	Processor System	CPU	Intel Atom D525, 1.8GHz
		Memory	2GB On board
		Storage	1 x CompactFlash Type II 1 x 2.5" SATA HDD
	Front I/O	VGA	1 x DB15 port
		Ethernet	2 x 10/100/1000 Mbps, RJ45 connector
		USB 2.0	3 x Type A
		Serial	2 x RS-232, DB9 connector
		PS/2	1
	Operating System	Windows	XP, XPE, 7

H1	Processor	CPU	Intel 3rd Gen. Core i3-3217UE, 1.6GHz
		Memory	4GB On board
		Storage	1 x CFast 1 x 2.5" SATA HDD
	Front I/O	VGA	1 x DB15 port
		Ethernet	2 x 10/100/1000 Mbps, RJ45 connector
		USB 2.0	2 x Type A
		Serial	2 x RS-232, RJ45 connector
		PS/2	1
	Operating System	Windows	XP, 7
H2	Processor	CPU	Intel 3rd Gen. Core i7-3517UE, 1.7 GHz
		Memory	4GB On board
		Storage	1 x CFast 1 x 2.5" SATA HDD
	Front I/O	VGA	1 x DB15 port
		Ethernet	2 x 10/100/1000 Mbps, RJ45 connectors
		USB 3.0	2 x Type A
		Serial	2 x RS-232, RJ45 connector
		PS/2	1
	Operating System	Windows	XP, 7

## PCI Hybrid Box

MIP-3104			
Backplane	CPCI interface to chassis		1 for chassis
	PCI Slot		4 Slots
	PCI Slot Power (4 Slot)		12V @ 2.4A, -12V @ 0.8A, +5V @ 7.5A, +3.3V @ 10A
Physical	Dimensions (W x H x D)		142 x 131 x 213 mm (5.59" x 5.15" x 8.38")
	Weight (g)		725
	Temperature	Operating	0~50 °C
		Non-operating	-20~60 °C
	Humidity (non-condensing)	Operating	10~85% @40 °C
		Non-operating	10~95% @40 °C
	Vibration (5~500 Hz)	Operating	1 Grms (with MIC-3100 chassis)
		Non-operating	1G
	Shock (11 ms)	Operating	10G (with MIC-3100 chassis)
		Non-operating	30G
Compliance	Regulatory		CE, FCC
	Compliance		PICMG 2.0 Rev. 3.0

