

# 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<br>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<br>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<br>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<br>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                               |





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- Защита от снятия компонента с производства.



#### Как с нами связаться

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