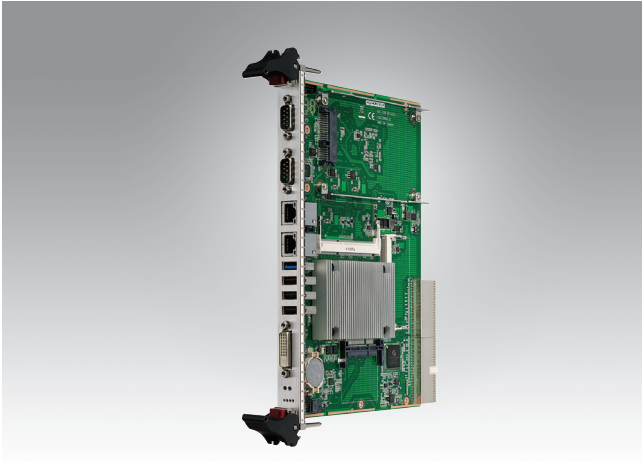


# MIC-3398

## 6U CompactPCI Intel® Atom™ Processor Blade



### Features

- Supports Intel® Atom™ E38xx, Celeron N2930 and J1900 processors, up to quad-core at 2 GHz
- Up to 8GB of 1333MHz DDR3L memory
- 2.5" SATA-II HDD/SSD mounting site
- Comprehensive I/O capabilities: DVI, USB 3.0/USB 2.0, Gigabit Ethernet, Serial Ports, SATA-II/CFast
- 4HP single slot high with dual GbE interfaces or 8HP dual slot high with quad GbE interfaces
- PICMG 2.1 R2.0, PICMG 2.6 R1.0 compliant

CE FCC

### Introduction

The MIC-3398 is a Low-Power 6U CompactPCI® CPU blade with best in class price/performance ratio tailored for applications that require a state of the art processor platform based on Intel® Architecture with full I/O capability at an attractive cost point.

The MIC-3398 supports Intel® Atom™ E3845 and Celeron N2930, J1900 SoC (system on a chip) family previously codenamed Bay trail with a maximum of quad-core 2.00 GHz processing performance.

Intel® Atom™ technology provides significant increases in performance and energy efficiency by using the 22nm Intel® manufacturing process making it an ideal choice for control and workstation applications that require passive cooling with a power dissipation as low as 10W.

Up to 8GB, dual channel 1333 MHz DDR3L memory with ECC support provide a high performance and robust memory interface for demanding applications. With built-in graphics based on Intel® HD Graphics Technology this blade offers a significant improvement in graphics performance compared to previous generation platforms. Support for an onboard 2.5" SATA-II drive as well as CFast SSDs adds comprehensive mass storage support.

On the system side, the MIC-3398 supports 32-bit, 33MHz and 64-bit, 66MHz PCI bus interfaces to a CompactPCI backplane.

A rich set of I/O interfaces such as DVI-D, USB3.0/2.0, Gigabit Ethernet and RS-232/422/485 ports round off the feature set. In addition to the single slot wide (4HP) board offering, a dual slot wide (8HP) version of the blade offers additional network connectivity by increasing Gigabit Ethernet port count from two to four.

### Specifications

|                      |                  |                                                                                     |
|----------------------|------------------|-------------------------------------------------------------------------------------|
| Processor System     | CPU              | Intel® Atom™ SoC (22nm) E38xx and Celeron N2930 and J1900, up to quad core 2.00 GHz |
|                      | BIOS             | AMI 8MByte SPI flash                                                                |
| CompactPCI Interface | J1 Connector     | 32-bit PCI local bus                                                                |
|                      | J2 Connector     | 64-bit PCI local bus                                                                |
| Memory               | Technology       | DDR3L 1333 MHz, dual channel without ECC support                                    |
|                      | Max. Capacity    | Up to 8GB                                                                           |
|                      | Socket           | SODIMM x2                                                                           |
| Graphic              | Controller       | Intel® Gen 7 Graphics Engines and media encode/decode engine; GPU Frequency 750MHz  |
|                      | VRAM             | Shared memory up to 224 MB SDRAM                                                    |
|                      | Resolution       | High resolution display up to 2560 x 1600 @ 60Hz                                    |
| Ethernet             | Controller       | 2 or 4 Intel® I210AT single-port Gigabit Ethernet controllers (on PCIe x1 channel)  |
|                      | Interface        | 10/100/1000Base-T Ethernet                                                          |
|                      | I/O Connector    | 2 RJ45 (4HP), 4 RJ45 (8HP)                                                          |
| Storage              | Onboard HDD/SSD  | 1 2.5" mounting site (SATA-II)                                                      |
|                      | Channels         | 1 CFast socket (SATA-II)                                                            |
| Front I/O            | USB3.0           | 1 type A                                                                            |
|                      | USB2.0           | 3 type A                                                                            |
|                      | DVI-D            | 1                                                                                   |
|                      | COM              | 2 RS232/422/485 on D-Sub-9                                                          |
|                      | LAN              | 2 10/100/1000 Mbps on RJ45 (4HP)<br>4 10/100/1000 Mbps on RJ45 (8HP)                |
|                      | Front Panel LEDs | 1x yellow for HDD, x1 green for Master/Drone mode, and x1 green for Power           |
|                      | Buttons          | CPU reset button and power button                                                   |
| Hardware Monitor     | HWM              | NCT7904                                                                             |

## Specifications (Cont.)

|                   |                       |                                                      |         |                                          |         |
|-------------------|-----------------------|------------------------------------------------------|---------|------------------------------------------|---------|
| Operating System  | Compatibility         | Win7/WES7, Win8/WES8, Linux, VxWorks 6.x(on request) |         |                                          |         |
| Power Requirement | CPU                   | J1900                                                |         | E3845                                    |         |
|                   | Voltage               | +3.3 V                                               | +5 V    | +3.3 V                                   | +5 V    |
|                   | Current               | 0.02 A                                               | 3.91 A  | 0.02 A                                   | 4.02 A  |
|                   | Maximum               | 0.07 W                                               | 20.41 W | 0.07 W                                   | 20.94 W |
| Physical          | Dimension (W x D)     | 233.35 x 160.0 mm                                    |         |                                          |         |
| Environment       | Operating Temperature | 0 ~ 55° C (32 ~ 122° F)                              |         | Non-operating -40 ~ 85° C (-40 ~ 185° F) |         |
|                   | Humidity              | 95 % @ 40° C, non-condensing                         |         | 95 % @ 60° C, non-condensing             |         |
|                   | Vibration (5-500 Hz)  | 2 Grms (without on-board 2.5" SATA HDD)              |         | 3.5 Grms                                 |         |
|                   | Shock                 | 10G 11ms                                             |         |                                          |         |
|                   | Altitude              | 15000ft, 55° C, above sea level                      |         | 40000 ft, -40° C, above sea level        |         |
| Regulatory        | Conformance           | FCC Class A, CE, RoHS                                |         |                                          |         |
| Compliance        | Standards             | PICMG2.0 R3.0, PICMG2.1 R.0, PICMG2.9 R1.0           |         |                                          |         |

## Ordering Information

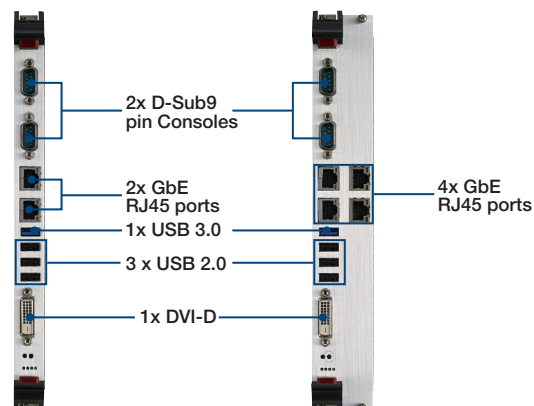
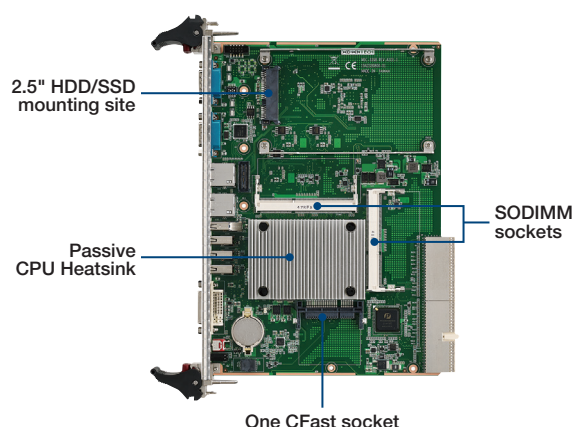
| System Board Model Number | Front I/O |                 |                 |                 |                  | Main On-board Features |                  |             |              |                 |                |             |
|---------------------------|-----------|-----------------|-----------------|-----------------|------------------|------------------------|------------------|-------------|--------------|-----------------|----------------|-------------|
|                           | DVI-D     | USB3.0 (type A) | USB2.0 (type A) | Ethernet (RJ45) | Console (D-Sub9) | CPU                    | Installed SODIMM | ECC Support | CFast Socket | Storage Channel | SODIMM Sockets | Front Panel |
| MIC-3398A-M2E             | 1         | 1               | 3               | 2               | 2                | J1900                  | 1x 2GB           | No          | 1            | 1 SATA II       | 2              | 4HP         |
| MIC-3398B-M4E             | 1         | 1               | 3               | 4               | 2                | J1900                  | 1x 4GB           | No          | 1            | 1 SATA II       | 2              | 8HP         |

For availability of other configurations please contact your Advantech representative.

## CPU Configuration

| Intel® CPU Model Number | # Cores | Freq.    | Turbo Freq. | Cache | CPU TDP | ECC |
|-------------------------|---------|----------|-------------|-------|---------|-----|
| E3845                   | 4       | 1.91 GHz | Na          | 2 MB  | 10 W    | Yes |
| N2930                   | 4       | 1.83 GHz | 2.16 GHz    | 2 MB  | 7.5 W   | Yes |
| J1900                   | 4       | 2.00 GHz | 2.42 GHz    | 2 MB  | 10 W    | No  |

## MIC-3398x-Mx E Series





**Стандарт  
Электрон  
Связь**

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