

## MIO-3360 Intel® Pentium N4200/Celeron N3350 Pico-ITX SBC, DDR3L, 48-bit LVDS, VGA,DP/HDMI, 1 GbE, Full-size Mini PCIe, 4 USB, 2 COM, SMBus, mSATA & MIOe Startup Manual

### Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

- 1 MIO-3360 SBC
- 1 Startup Manual
- 1 Heatsink p/n: 1960078695T101
- Screw and stud pack (2 screws for Mini PCIe, 4 M3 studs and screws for heatsink) p/n: 9666226300E

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

**Note 1:** For detailed contents of MIO-3360, please refer to Advantech website.

**Note 2:** Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: <http://get.adobe.com/reader/> (Acrobat is a trademark of Adobe)

**Note 3:** Default BIOS is supported for 64 bit OS installation, BIOS for 32 bit OS is supported by project, please contact with sales representative for details.

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://service.advantech.com.tw/support/>

This manual is for the MIO-3360 Series Rev. A1

Part No. 2006O33600  
Printed in China

1st Edition  
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### Specifications

#### General

- CPU:** Intel® Pentium N4200, 1.10 GHz, Quad-core/ Intel® Celeron N3350, 1.10 GHz, Dual-core
- System Memory:** 1 x 204-pin SODIMM socket DDR3L 1866 MHz, up to 8 GB
- L2 Cache:** 2 MB
- BIOS:** AMI EFI 64 Mbit Flash ROM
- Watchdog Timer:** 255 level interval timer
- Battery:** Lithium 3 V/210 mAh

**Note:** How to clear CMOS (Must follow steps below):

- Turn off system power.
- Unplug CR2032 battery cable on BH1.
- Waiting for 15 sec or short BH1 pin1-2.
- Connect battery cable on BH1.
- Turn on system power.

- Serial ATA:** One SATA III interface, up to 600 MB/s
- USB:** 4 USB 2.0
- Audio:** High definition audio (HD), line-in, line-out
- GPIO:** 8-bit general purpose input/output
- Expansion Interface:** Full size Mini PCIe

#### MIOe Expansion Slot

- Interface:** SMBus, USB3.0, LPC, 2 x PCIe x1, Line out, DisplayPort/HDMI\*, +5 Vsb/+12 Vsb power, Power On, Reset
- Total peripheral power supply output:** 5V @ 3A for CPU board and MIOe module totally, 12V @ 2A for MIOe module

#### VGA/HDMI Interface

- Controller:** Intel® SoC N3350, DirectX 11 and OpenGL3.0 support for VGA and HDMI display 48 bit LVDS display output
- Output Interfaces:**
  - VGA: Up to 1920 X 1200 at 60 Hz
  - HDMI: Up to 3840 x 2160 at 30Hz
  - LVDS: Single channel 48-bit LVDS, up to 1920 x 1200 at 60Hz
  - Dual Display: LVDS+VGA or LVDS+DP/HDMI or VGA+DP/HDMI

#### Ethernet Interface

- Supports single 10/100/1000 Mbps Ethernet interface
- Controller:** Intel® i210

## Specifications Cont.

### Mechanical and Environmental

- **Dimensions:** 100 x 72 mm (3.9" x 2.8")  
Mechanical Drawings are on page 4 - 6.
- **Power Requirement:** Single 12 V  $\pm$  10% DC power input
- **Power Consumption (with 8 GB memory):**
  - Typical in Window 10:  
Idle mode  
N3350: 0.37 @ 12V (4.48W)
  - Max in HCT:  
Max. load  
N3350: 1.44 @ 12V (17.38W)

**Operating Temperature:** 0 ~ 60° C (32 ~ 140° F)

- **Weight:** 0.39 kg (0.85 lb), weight of total package

## Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors.

### Jumpers

Label	Function
J1	LCD Power / Auto Power on
J2	Mini PCIE/ mSATA Select

### Connectors

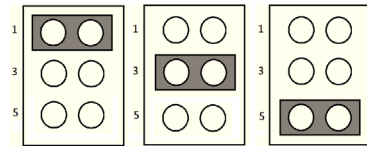
Label	Function
CN4	64Pin Connector A
CN5	DDR3L SO-DIMM
CN10	Mini PCIE
CN11	SATA
CN18	MIOe
CN26	Battery
CN28	12V Power Input
CN29	64Pin Connector B
CN30	VGA
CN31	Inverter Power Output
CN32	Internal USB
CN33	LAN
CN34	48-bit LVDS Panel

## Jumpers and Connectors

### Jumper Settings

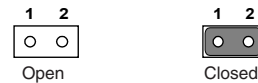
J1	LCD Power Selection
Setting	Function
(1-2)	+5 V
(3-4)*	+3.3 V
(5-6)*	Auto Power On

\* default



J2	Mini PCIE/ mSATA Select
Setting	Function
(Close)*	+Mini PCIE
(Open)	mSATA

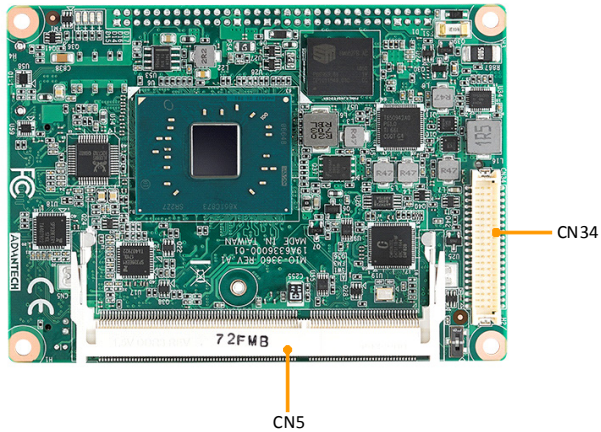
\* default



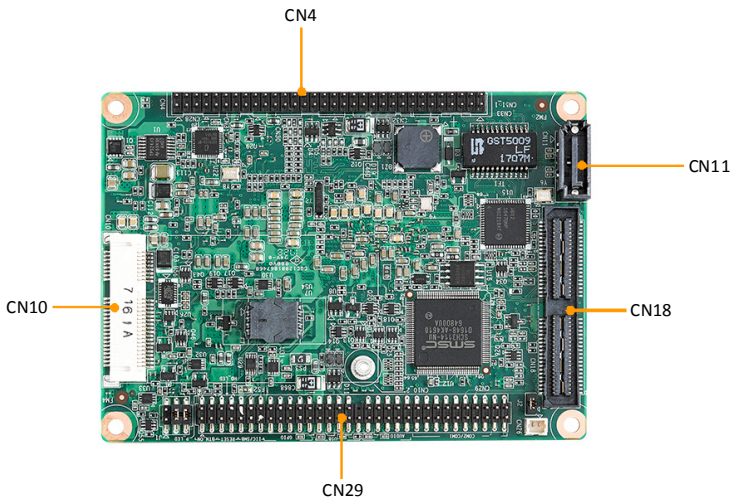
**Caution!** The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.



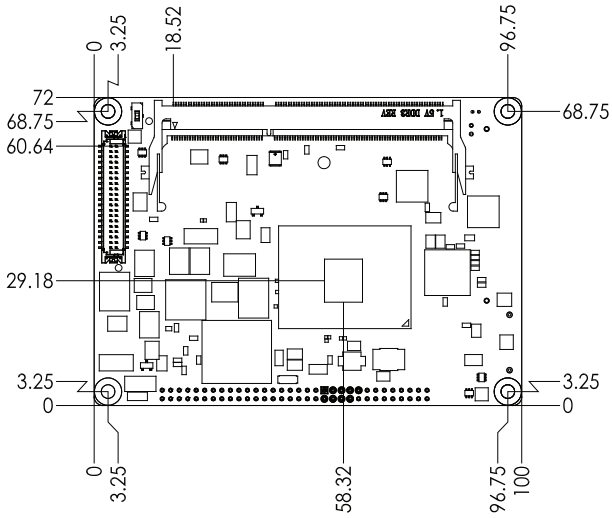
# MIO-3360 Connector Locations



*Figure 1: MIO-3360 Connector Locations (Top Side)*

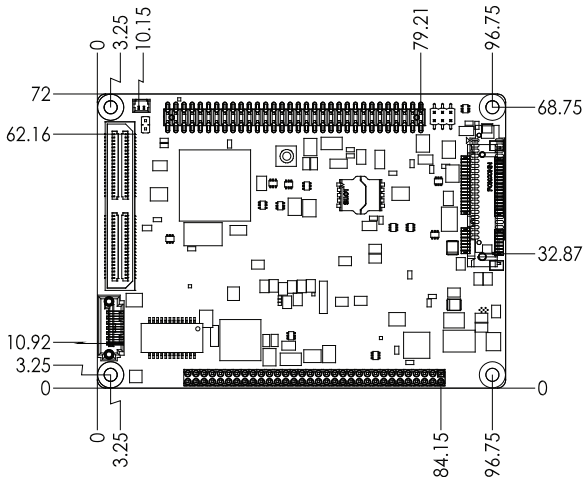


*Figure 2: MIO-3360 Connector Locations (Bottom Side)*



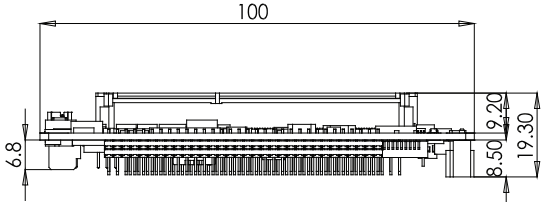
Unit: mm

Figure 3: MIO-3360 Mechanical Drawing (Top Side)



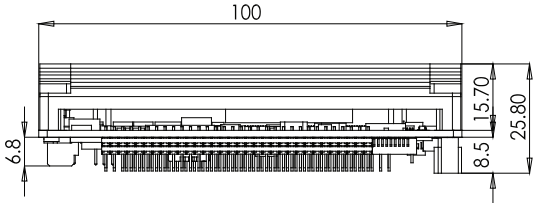
Unit: mm

Figure 4: MIO-3360 Mechanical Drawing (Bottom Side)



Unit: mm

Figure 5: MIO-3360 Mechanical Drawing (Side View)



Unit: mm

Figure 6: MIO-3360 Mechanical Drawing (Side View with Heat Sink)