



### FEATURES

- Efficient Fanless Design Supports Up To 65W TDP CPUs
- B75 Chipset Supports 3rd Gen Intel Core i3/i5 Processors
- Two Gigabit Ethernet Ports & Six USB Ports
- Mini-PCIe Expansion With One SIM Socket For Wi-fi Module
- Expandable To Six COM Ports With Up To Five RS-485
- Vent Hole Free With Two PCI/PCIe Expansion Slots

BIS-6590 is built with a new generation of the ICEFIN Fanless system. The large heat-dissipating fins allows it to support up to 65W Intel Ivy Bridge Core i3/i5 family processors. This system can be used for digital signage, Industrial automation, robotics and other rugged computer applications demanding high processing performance.

### SPECIFICATIONS

#### SYSTEM

Processor	Intel 3rd Generation Core i3/i5 (LGA1155) TDP Up To 65W
Platform	Intel Ivy Bridge
Memory	2x 240-Pin DDR3 SDRAM, Up To 16GB
Storage	1x 2.5" SATA Drive Bay

#### DISPLAY

Interface	1x VGA 1x DVI-D
Graphic Controller	Intel Integrated HD Graphics 4000

#### COMMUNICATIONS

Ethernet	2x 10/100/1000 Mbps, Realtek RTL8111E GbE
Wi-Fi	On-board Mini-PCIe Slot (Module Not Included) External Antennas

#### I/O INTERFACE

Audio	HD Audio, Realtek ALC892 Line-Out MIC-In
Ports	1x RS-232 DB9 1x RS-232/422/485 DB9 6 x USB 2.0 <b>Options:</b> 4x RS-232 or RS-485 ports

#### EXPANSION I/O

Expansion	1x Mini PCIe With SIM Card Connector <b>Options:</b> 2x PCI or 1x PCI + 1x PCIe x4 Slots
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#### MECHANICAL

Cooling	Fanless
Watchdog Timer	Built-In
Enclosure Material	Aluminum
Enclosure Color	Black
Mounting ( <b>Option</b> )	Support Wall Mount Bracket
Dimensions	280mm x 219mm x 115mm (11.02" x 8.62" x 4.53")

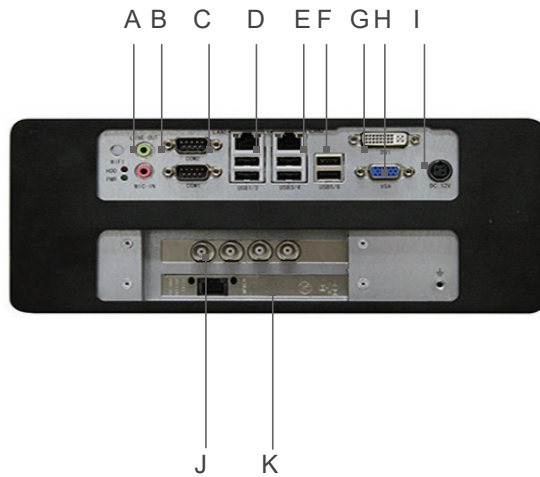
#### POWER

Input Voltage	12V/19V DC DIN Power Jack
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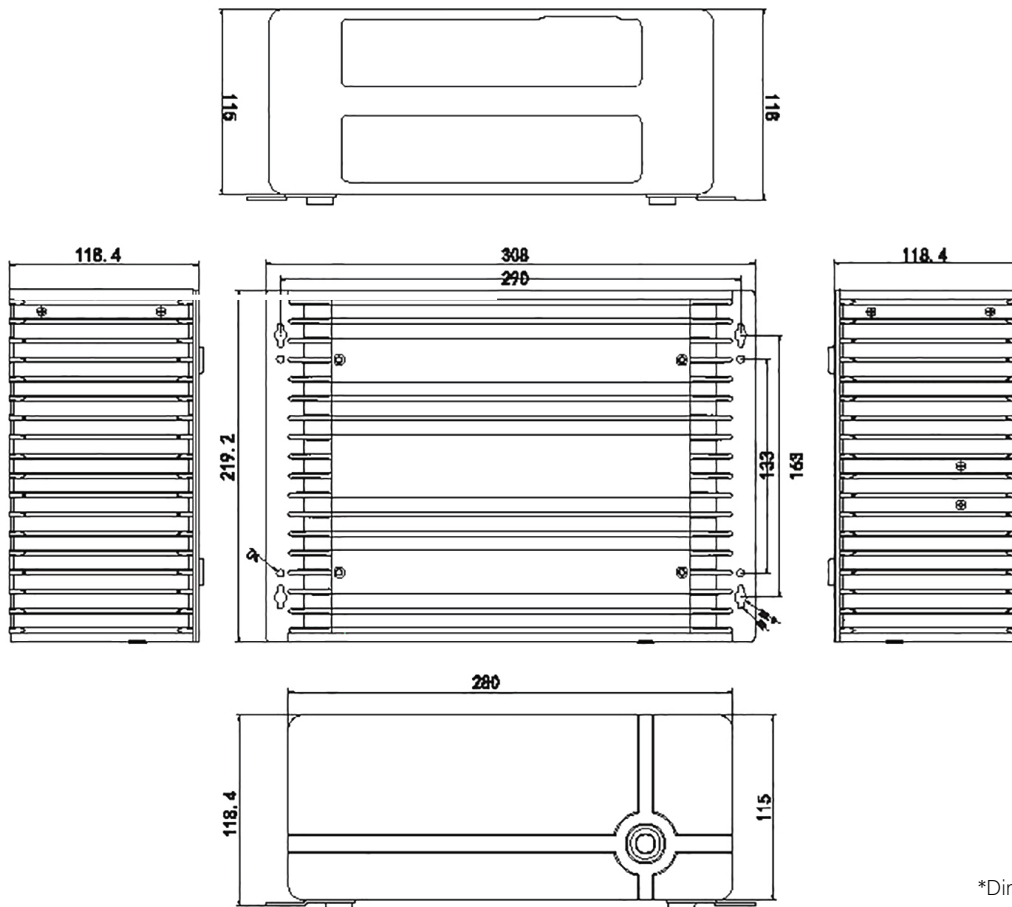
#### ENVIRONMENTAL

Operating Temp	0°C to 50°C (32°F to 122°F)
Storage Temp	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 95% @ 40°C (Non-Condensing)

\*Specifications are representative. Specific product technology may be different than indicated.



- A. Antenna
- B. Audio
- C. COM Ports
- D. GbE + 2x USB 2.0
- E. GbE + 2x USB 2.0
- F. 2x USB 2.0
- G. DVI
- H. VGA
- I. 12V DC IN
- J. COM Ports
- K. PCI Slot



\*Dimensions in mm

### ORDER OPTIONS

PART NUMBER	DESCRIPTION
BIS-6590A	Fanless Barebone Computer With Two COM ports
BIS-6590B	Fanless Barebone Computer With Six COM ports