POLYHEX

Fanless Ivy Bridge Dual GbE Barebone with PCI and PCIe expansion slots

Features:

· Highly efficient fanless design supports up to 65W TDP CPUs

· Vent-hold free construction with two expansion slots

· B75 chipset supports 3rd generation Intel® Core™ i3/i5/i7 processors

· Mini-PCIe expansion with one SIM socket for Wifi and 3G/4G modules

· Two Gigabit Ethernet ports and six USB ports

· Expandable to six COM ports with up to 5 RS-485 configuration

Introduction:

Introducing the new BIS-6590 with a new generation of the ICEFIN Fanless system. The large heat-dissipating fin appearance, compact, measures only 280mm × 219.2mm × 115 mm. The fanless system supports Intel H61/Q77/B75 chipset. Also with support for Intel Sandy Bridge / Ivy Bridge Core i3/i5 / Celeron family processor , 2x DDR3 DIMM slots support dual channel DDR3 1066/1333/1600 MHz , with maximum memory of up to 16GB . Does not support ECC . The VGA + DVI dual independent display outputs supports resolutions up to 2048x 1536. The fanless system also provides 1x SATA II / SATAIII hard disk interface , 6x USB 2.0, 2x COM, 2x Gigabit Ethernet ports and 1x8 channel GPIO . It also provides 1x PCIex4, 2x PCI for expansion flexibility. Other features include Wake on LAN and watchdog and other advanced features.

This system can be used for Intelligent Transportation, Information Control, On-Board Vehicle Computing, Media Players, Digital Signage, Industrial Automation and many other applications.

Specification：

Processor	Intel 2nd & 3rd Core i3/i5/i7 (LGA1155)
Chipset	Intel B75 (with H61 and Q77 option)
System Memory	2x 240-Pin DDR3 SDRAM, up to 16GB
Ethernet	2x RJ45 ,Realtek RTL8111E GbE x2
Storage	1x SATA 6Gb/s, optional mSATA via mini-PCIe
Expansion	1x mini-PCIe with SIM, option of 2x PCI or 1x PCI + 1x PCIe x4 slots
Cooling System	Fanless, power design supports up to 65W TDP CPUs
Power Supply	12V DC 3-pin mini-DIN power jack
Graphic Controller	Intel integrated HD Graphics 4000
Video Memory	Shared, up to 1686MB
Display Interface	1x VGA, 1x DVI-D
Display Resolution	VGA - 2048x 1536, DVI-D - 1920x 1200, HDMI - 1920x 1200
Serial Port	1x RS-232 DB9, 1x RS-232/422/485 DB9, optional add-on of 4x RS-232 or RS-485 ports
USB	6x USB2.0
PS/2 Port	-
Digital I/O	8bit GPIO internal header
Audio	HD Audio, Realtek ALC892, Line-out, MIC-in
Rear Panel	1x VGA, 1x DVI-D, 2x COM, 2x RJ45, 6x USB, 2x Audio, 1x DC IN
Front LED/Control	-
Watchdog Timer	Programmable timer system reset
Features and Options	Fanless design supports up to 65W TDP CPUs, Ivy Bridge Intel® HD Graphics with DirectX 11 support, Dual Intel Gigabit Ethernet ports, SATA III 2.5" HDD or SSD internal drive bay, 12V DC input, support two PCI or one PCI + one PCIe x4 expansion slots
Enclosure Materials	Aluminum + Steel
Coating Processes	Aluminum Oxidation
Mounting Option	Desktop and Wall Mountable With VESA Kit
Color	Black (Default), Custom Color Available On OEM Order
Operating Temperature	0 ºC - 60 ºC (32ºF - 140 ºF) Standard
Dimensions	244mm × 156mm × 54mm (W×D×H)

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Beyond the Embedded Deployment