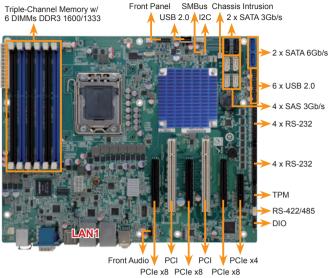
[BA-C604]

ATX Server Board Supports 32nm LGA1356 Intel® Xeon® E5 Series up to 8 Cores CPU with Intel® C604, DDR3, VGA, PCIe Gen 3.0, SAS 3Gb/s,



Specifications

◆ CPU

LGA1356 socket supports Intel® Xeon® E5-14xx, E5-24xx series processor with up to eight cores

- ♦ System Chipset Intel® C604
- ◆ Memory

Triple-channel memory architecture (2 DIMMs per channel), 240-pin 1600/1333 MHz DDR3 SDRAM ECC UDIMMs or non-ECC RDIMMs/LRDIMMs supported (system max. 48GB UDIMMs or 96GB RDIMMs or 192GB LRDIMMs)

- ♦ BIOS
- **UEFI BIOS**
- Ethernet

Dual Intel® 82574L PCIe controller

- ♦ Graphics Engine
- ASPEED AST1300
 PCIe VGA/2D controller, 1920x1200@60Hz 32bpp
- ◆ Display Output Driver form AST1300
- ♦ Super I/O Fintek F81866
- ◆ Audio

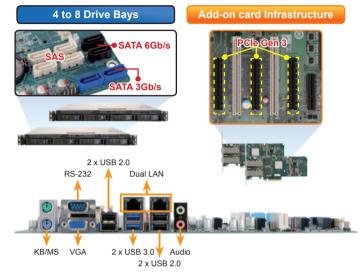
Realtek ALC662 HD audio codec (Line-out, Mic)

- ♦ I/O Interface
- 2 x SATA 3Gb/s (RAID 0/1/10/5 support) 9 x RS-232 2 x SATA 6Gb/s (RAID 0/1/10/5 support) 1 x RS-422/485 1 x PS/2 KB/MS 4 x SAS 3Gb/s (RAID 0/1/10 support)
- 2 x USB 3.0 (on rear I/O) 11 x USB 2.0 (4 on rear, 6 by pin header, 1 by type A)
- Front Panel
- 1 x Front panel connector (power LED, HDD LED, speaker, power button, reset button)
- ◆ Front Audio
- 2 x 5-pin header ◆ TPM
- 1 x TPM connector (2x10 pin)
- ♦ SMBus 1 x 4-pin wafer
- ♦ I2C
 - 1 x 4-pin wafer
- ◆ Expansions
- 3 x PCle x8 slot
- 1 x PCle x4 slot 2 x PCI slot
- ♦ Watchdog Timer
- Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
- 8-bit Digital I/O (8-bit GPIO is for programming I/O)
- ◆ Fan Connector
 - 1 x 4-pin CPU fan connector
 - 2 x 4-pin system connector
 - 1 x 3-pin system fan connector
- ◆ Power Supply
- ATX/AT power supply
- Power Consumption
 12V@1.08A, Vcore@2.46A, 3.3V@0.61A, -12V@0.15A, 5V@2.33A (Intel® Xeon® 1.40GHz 28 GB DDR3 w/ECC memory)
- ♦ Operating Temperature -10°C ~ 60°C
- ◆ Storage Temperature -20°C ~ 70°C
- ◆ Operating Humidity
- 5% ~ 95%, non-condensing
- ♦ Dimensions: 244 mm x 305 mm ♦ Weight: GW: 1200g/NW: 700g

SATA 6Gb/s, COMs and Audio

Benefits of the entry-level server board IMBA-C604EN with universal processor

- 1. Storage application fulfill 4 to 8 driver bay needed
- 2. Rich serial ports fulfill multiple communication devices
- 3. Multiple expansion slots by PCIe and PCI interfaces for high speed add-on card infrastructure























Features

- 1. Supports high-performance LGA1356 Intel® Xeon® E5 CPU with up to eight cores
- 2. Support Triple-Channel memory technology, two DDR3 1600/1333MHz DIMM slots per channel up to 48GB UDIMMs, 96GB RDIMMs or 192GB LRDIMMs
- 3. Integrated PCI Express Gen 3 for improved bandwidth and connectivity support up to 24 lanes at
- 4. Intel® Matrix RAID supports 0/1/10/5 for SATA and 0/1/10 for SAS hard drive interfaces
- 5. VGA display output driver form on-board IC via AST1300 for all Xeon® E5-2400 series CPU
- 6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

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1 x IMBA-C604EN single server board computer	
1 x I/O shielding (P/N: 45014-0039C0-00-RS)	1 x Mini jumper pack
4 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

Ordering Information

Part No.	Description
IMBA-C604EN-R10	ATX server board supports 32nm LGA1356 Intel® Xeon® E5 series up to 8 cores CPU with Intel® C604, DDR3, VGA, dual Intel® PCIe GbE, PCIe Gen 3.0, SAS 3Gb/s, SATA 6Gb/s, SATA 3Gb/s, USB 2.0, COM, HD Audio and RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32205-001800-200-RS	Quad port RS-232 cable without bracket, 400/400/400/400 mm
32102-000100-100-RS	SATA power cable
CF-1356A-RS	High performance LGA1355/LGA1356 cooler kit, 1U chassis compatible, 95W
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17