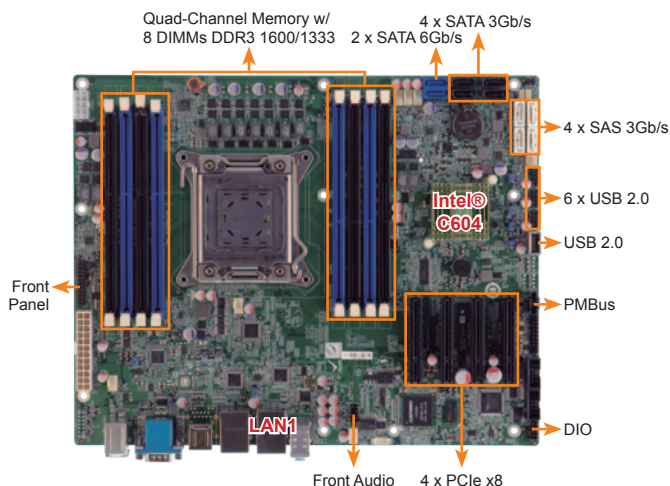


IMBA-C604EP

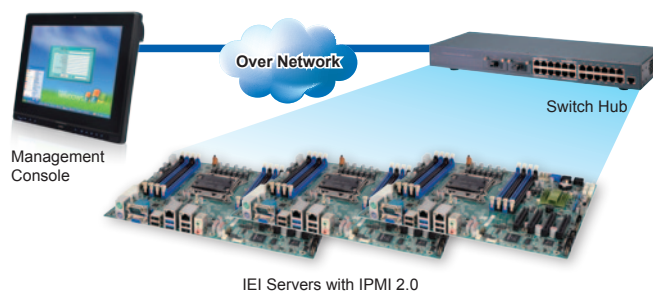
ATX Server Board Supports 32nm LGA2011 Intel® Xeon® E5 Series up to 8 Cores CPU with Intel® C604, DDR3, VGA, Dual Intel® PCIe GbE, PCIe Gen 3.0, SAS 3Gb/s, SATA 6Gb/s, SATA 3Gb/s, USB 2.0 and Audio



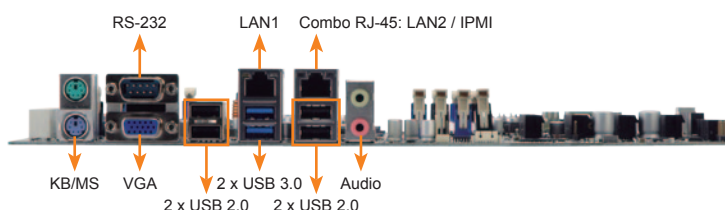
Specifications

- ◆ CPU
LGA2011 socket supports Intel® Xeon® E5-16xx, E5-26xx, E5-46xx series (up to 8 cores) processor
- ◆ System Chipset
Intel® C604
- ◆ Memory
Quad-channel memory architecture (2 DIMMs per channel), 240-pin 1600/1333 MHz DDR3 SDRAM ECC UDIMMs or non-ECC RDIMMs/LRDIMMs supported (system max. 64GB UDIMMs or 128GB RDIMMs or 256GB LRDIMMs)
- ◆ BIOS
UEFI BIOS
- ◆ Ethernet
Dual Intel® 82574L PCIe controller
- ◆ Server Management
1 x RJ-45 for Intelligent Platform Management Interface (IPMI) v.2.0
IPMI 2.0 with virtual media over LAN and iKVM-over-LAN support
- ◆ Graphics Engine
ASPEED AST2300
PCIe VGA/2D controller, 1920x1200@60Hz 32bpp
- ◆ Display Output
1 x VGA (driver form AST2300)
- ◆ Super I/O
Fintek F81866
- ◆ Audio
Realtek ALC662 HD audio codec (Line-out, Mic)
- ◆ I/O Interface
2 x USB 3.0 (2 on rear) 11 x USB 2.0 (4 on rear, 6 by pin header, 1 by type A)
1 x RS-232 (on rear I/O) 4 x SATA 3Gb/s (RAID 0/1/10/5 support)
1 x PS/2 KB/MS 2 x SATA 6Gb/s (RAID 0/1/10/5 support)
4 x SAS 3Gb/s (RAID 0/1/10 support)
- ◆ Front Panel
1 x Front panel connector (power LED, HDD LED, LAN 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
- ◆ PMBus
1 x 5-pin box header
- ◆ Expansions
4 x PCIe x8 slots
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
8-bit Digital I/O (4-bit input / 4-bit output)
- ◆ Fan Connector
1 x 4-pin CPU fan connector
5 x 4-pin system fan connector
- ◆ Power Supply
ATX/AT power supply
- ◆ Power Consumption
Vcore_12V@5.86A, 12V@1.03A, 5V@1.72A, 3.3V@1.01A, 5Vsb@0.47A (Intel® Xeon® E5-2658 2.1GHz with four 1333 MHz 4 GB DDR3 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

Server management platform with universal processor



Server management features are supported by IPMI & iKVM protocols



Features

1. High performance LGA2011 Xeon® E5 series CPU (up to 8 cores) supported
2. Support Quad-Channel memory technology, two DDR3 1600/1333MHz DIMM slots per channel up to 64GB UDIMMs, 128GB RDIMMs or 256GB LRDIMMs
3. Server management features are supported by IPMI & iKVM protocols
4. Integrated PCI Express Gen 3 for improved bandwidth and connectivity support up to 40 lanes at 8GT/s
5. Intel® Matrix RAID supports 0/1/10/5 for SATA and 0/1/10 for SAS hard drive interfaces
6. VGA display output driver form on-board IC via AST1300 for all Xeon® E5 series CPU
7. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x IMBA-C604EP 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-C604EP-R10	ATX server board supports 32nm LGA2011 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, HD Audio and RoHS
19800-003100-300-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
CF-2011A-RS	High performance LGA2011 cooler kit, 1U chassis compatible, 130W
CF-2011B-RS	High performance LGA2011 cooler kit, 2U chassis compatible, 130W
TPM-IN01-R11	20-pin Infineon TPM module, SW management tool, firmware V3.17