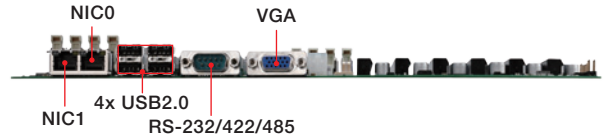
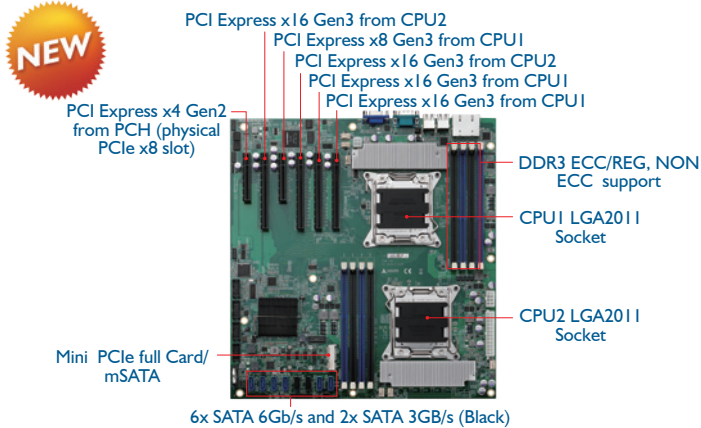


# IMB-S90

## Extended ATX Server Board with Dual Intel® Xeon® Processors E5 series



### Features

- Dual LGA2011 Intel® Xeon® E5 series Processors
- Eight memory sockets support DDR3-1600 REG/ECC or Non-ECC up to 128 GB
- 4 x PCIe x16 Gen3, 1 x PCIe x 8 Gen3 and 1 x PCIe x 4 Gen2 (physical PCIe x 8 slot)
- IPMI v2.0 Remote Management

### Specifications

#### Processor System

<b>CPU</b>	Intel® Xeon® E5-2658, 2.1 GHz, QPI 8GT/s, 20 MB cache, 32nm, 95W TDP, LGA2011(8C)
	Intel® Xeon® E5-2648L, 1.8 GHz, QPI 8GT/s, 20 MB cache, 32nm, 70W TDP, LGA2011(8C)
	Intel® Xeon® E5-2658 v2, 2.4 GHz, QPI 8GT/s, 25 MB cache, 22nm, 95W TDP, LGA2011(10C)
	Intel® Xeon® E5-2648L v2, 1.9 GHz, QPI 8GT/s, 25 MB cache, 22nm, 70W TDP, LGA2011(10C)
	Intel® Xeon® E5-2640 v2, 2.0 GHz, QPI 7.2GT/s, 20 MB cache, 22nm, 95W TDP, LGA2011(8C)
	Intel® Xeon® E5-2630 v2, 2.6 GHz, QPI 7.2GT/s, 15 MB Cache, 22nm, 80W TDP, LGA2011(6C)
	Intel® C604 Chipset
<b>Chipset</b>	Intel® C604 Chipset
<b>Memory</b>	Dual-Channel DDR3 1600 MHz, 8x 240-pin DIMM sockets, up to 128 GB
	Supports ECC registered DIMMs or non-ECC unbuffered DIMMs
<b>BIOS</b>	AMI 64 Mb SPI BIOS
<b>IPMI</b>	ASPEED AST2300 BMC
	IPMI Support for Intelligent Platform Management Interface v.2.0
	AMI MegaRAC® Web GUI
	KVM/Media Redirection support
	Support for remote power-cycle, power-down, power-up and reset by NIC1
	Serial over LAN (rear I/O COM port)
<b>Operating Systems</b>	HW monitor: +12V, +5V, +3.3V, CPU voltage, CPU/motherboard temperature, CPU/system fan speed
	Watchdog Timer: 1-65535 sec software programmable, can generate system reset
	Microsoft Windows Server 2008 R2 64-bit
	Microsoft Windows 7 64-bit RedHat Enterprise Linux 6

#### I/O Interfaces

<b>Serial ATA</b>	4x SATA 6Gb/s from Marvell 88SE9230 (SATA port from Marvell support RAID 0/1/5/10)
	2x SATA 6Gb/s from PCH
	2x SATA 3Gb/s from PCH (SATA port from PCH support RAID 0/1/5/10)
	1x Mini PCIe full card slot support PCIe Gen2/USB or m-SATA (signal share SATA 6Gb/s port from PCH)
<b>USB</b>	8x USB 2.0 ports (4x rear I/O, 4x onboard pin headers)
<b>Serial Port</b>	1x RS-232 (pin header), 1x RS-232/422/485 (rear I/O)

#### Expansion Slots

- Slot 1: PCIe x16 Gen3 from CPU1
- Slot 2: PCIe x16 Gen3 from CPU1
- Slot 3: PCIe x16 Gen3 from CPU2
- Slot 4: PCIe x8 Gen3 from CPU1
- Slot 5: PCIe x16 Gen3 from CPU2
- Slot 6: PCIe x4 Gen2 from PCH (physical PCIe x8 slot)

#### DIO

Isolated GPIO 8-bits input, 8-bits output

#### Audio

##### Audio Codec Interface

Realtek ALC262 on DB-Audio2 daughter board (optional)  
Line-in, Line-out, Mic-in on DB-Audio2 daughter board (optional)

#### Display

##### Graphics VGA

BMC AST2300 built-in 128 MB VRAM  
Dsub-15 connector, up to 1920 x 1200 resolution @ 60 Hz

#### Ethernet

##### Controller Interface Wake On LAN

Dual Intel® GbE Controller I210-AT (NIC0 and NIC1)  
PCIe x1 Bus  
Support on NIC1

#### Mechanical and Environmental

<b>Form Factor</b>	E-ATX
<b>Dimensions</b>	305 mm x 330 mm (W x L)
<b>Operating Temp.</b>	0°C to 40°C
<b>Storage Temp.</b>	-20°C to 80°C
<b>Certifications</b>	CE, FCC Class A
<b>Relative Humidity</b>	10% to 90%, non-condensed

#### Ordering Information

Model Number	Description/Configuration
IMB-S90	Extended ATX Server Board with Dual Xeon Processors E5 Series, 4x PCIe x16, 1x PCIe x8 and 1x PCIe x4 slots

#### Optional Accessories

32-40289-0000 2011	Socket SINK CoolJag _ JYC1R04ATPG
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#### Packing Lists

IMB-S90	Driver DVD
IMB-S90 I/O shield	User Manual
2x SATA data cables	