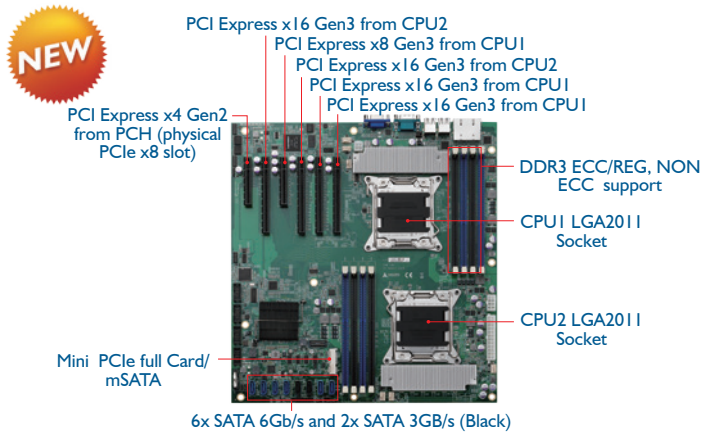
IMB-S90

Extended ATX Server Board with Dual Intel® Xeon® Processors E5 and E5 v2 Family





Features

- **Dual LGA2011 Intel® Xeon® Processor E5 and E5 v2 family**
- **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

CPU	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)
Chipset	Intel® C604 Chipset
Memory	Dual-Channel DDR3 1600 MHz, 8x 240-pin DIMM sockets, up to 128 GB
	Supports ECC registered DIMMs or non-ECC unbuffered DIMMs
BIOS	AMI 64 Mb SPI BIOS
IPMI	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)
	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
Operating Systems	Microsoft Windows Server 2008 R2 64-bit
	Microsoft Windows 7 64-bit
	RedHat Enterprise Linux 6

I/O Interfaces

Serial ATA	4x SATA 6Gb/s from Marvell 88SE9230 (SATA port from Marvell support RAID 0/1/10)
	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)
USB	8x USB 2.0 ports (4x rear I/O, 4x onboard pin headers)
Serial Port	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)

Audio

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

Display

Graphics	BMC AST2300 built-in 64 MB VRAM
VGA	Dsub-15 connector, up to 1920 x 1200 resolution @ 60 Hz

Ethernet

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

Mechanical and Environmental

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

Ordering Information

Model Number	Description/Configuration
IMB-S90	Extended ATX Server Board with Dual Intel® Xeon® Processor E5 and E5 v2 family, 4x PCIe x16, 1x PCIe x8 and 1x PCIe x4 slots

Optional Accessories

32-40289-0000 2011	Socket SINK CoolJag _ JYC1R04ATPG

Packing Lists

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

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