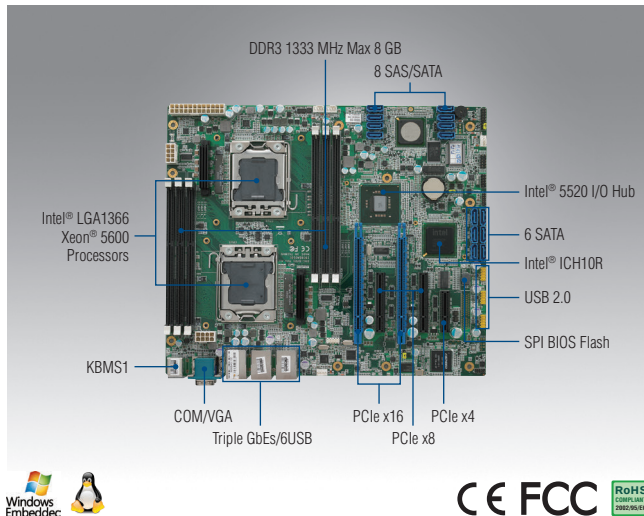


ASMB-310IR

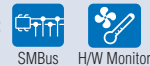
**Dual LGA 1366 Intel® Xeon®
5500/5600 CEB Server Board with
2 PCIe x16 or 4 PCIe x8, SAS RAID**



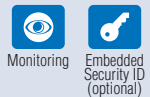
Features

- High density CEB with dual processors, 6 DIMMs, on-board SAS, 6 PCIe Gen 2.0, IPMI
- Dual LGA 1366 Intel® Xeon® 5500/5600 processors
- DDR3 1333MHz up to 96GB
- Dual Gen 2.0 PCIe x16 or quad PCIe x8 slots
- 8 SAS ports, 6 SATA ports, totally 14 storage ports

Software APIs:



Utilities:

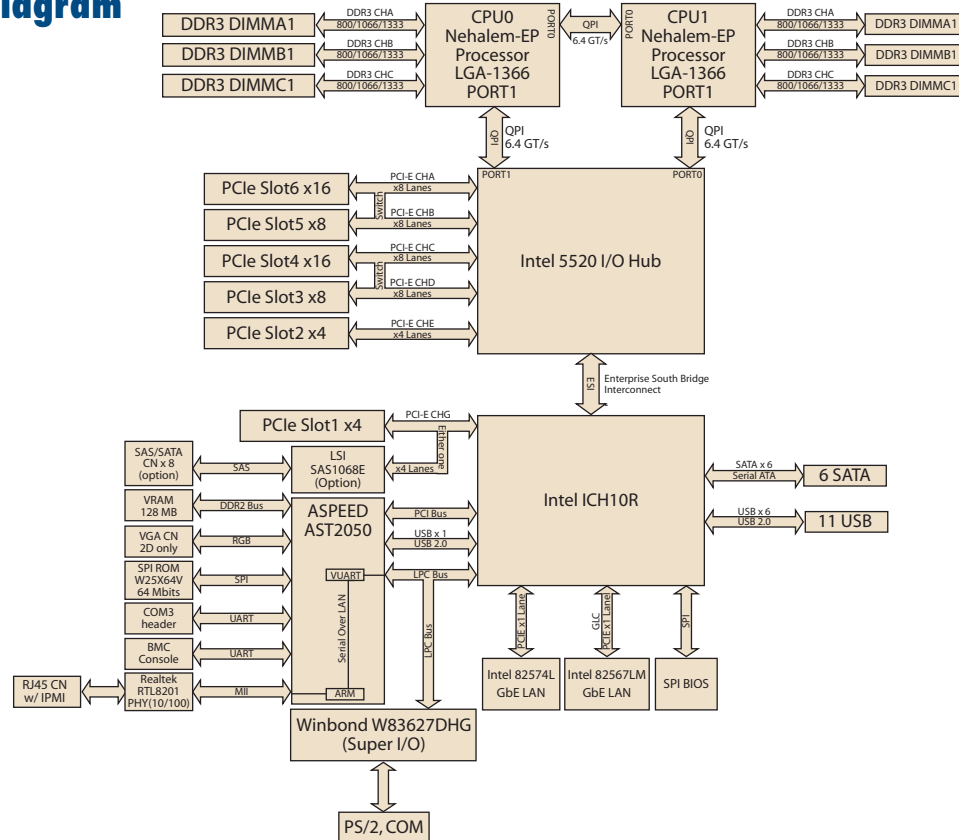


Note: Two CPU coolers are included in packing list.

Specifications

Form Factor	Socket	CEB form factor			
Processor System	CPU type	2 x socket 1366			
	Bus	Intel Xeon 5600 series, Intel Xeon X5500 series (95 W), Intel Xeon E5500 series (80 W), Intel Xeon L5500 series (60 W/38 W)			
Core Logic	Chipset	QPI 4.8 / 5.86 / 6.4 GT/s			
	Chipset	Intel 5520 chipset IOH, Intel ICH10R I/O controller			
Memory	Total slots	6 (3-channel per CPU, 3 DIMM per CPU)			
	Capacity	Maximum up to 96 GB			
	Memory type	DDR3 800/1066/1333 reg DIMM/unbuffered DIMM with ECC			
	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB			
Expansion Slots (SSI location #)	Total PCI/PCI-X/PCIe slots	6			
	Slot location 1	1 x PCIe x4 (Gen1 X4 link) (This slot is not available in ASMB-310IR SKU)			
	Slot location 2	1 x PCIe x4 (Gen2 X4 link)			
	Slot location 3	1 x PCIe x8 (Gen2 X8 link)			
	Slot location 4	1 x PCIe x16 (Gen2 X16 link) (Auto switch to x8 link if slot 3 is occupied)			
	Slot location 5	1 x PCIe x8 (Gen2 X8 link)			
	Slot location 6	1 x PCIe x16 (Gen2 x16 link) (Auto switch to x8 link if slot 5 is occupied)			
	Slot location 7	-			
Graphics	VGA	Aspeed AST2050 DDR2 512 Mbit (64 MB)			
Storage	IDE controller	-			
	SATA controller	Intel ICH10R: 6 SATA2 300 MB/s ports, Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)			
	SAS controller	LSI 1068E SAS/SATA controller and supports firmware RAID 0, 1 (ASMB0-310IR SKU only)			
Networking	GbE LAN	1 x Intel 82574L + 1 x Intel 82567LM + dedicated LAN port for remote management function (management LAN is available in ASMB-310IR SKU only)			
Onboard I/O Connectors	Floppy connector	-			
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V + 8-pin SSI 12 V power connector			
	USB connector	3 (supports 5 USB port)			
	Fan header	5 x 4pin			
	SMBus	-			
	Chassis Intruder	1			
	Front LAN LED	2			
	Serial port header	1			
Rear I/O Connectors	External serial port	1			
	External USB port	6			
	VGA port	1			
	RJ-45	2			
	PS/2 KB/mouse	1			
	Infiniband	-			
Management Solution	Software	-			
	Out of band remote management	Yes (ASMB-310IR SKU only)			
Monitoring	CPU temperature	Yes			
	System Monitoring	Yes			
Watchdog Timer	Output	System reset			
	Interval	Programmable 1 ~ 255 sec/min			
Power Requirement	Power On	12V	5V	3.3V	5Vsb
		22.62A	9.82A	12.86A	0.03A
Environment	Operating	Non-operating			
	Temperature	0 ~ 50° C			
	Humidity	-40 ~ 85° C			
Physical Characteristics	Dimensions	5% ~ 95% (Non condensing)			
		304.8 x 257.05 mm (12" x 10.12")			

Block Diagram



Ordering Information

Part Number	HDD	Expansion Slot	IPMI
ASMB-310-00A1E	6 SATA	4 x PCIe x8 (or 2 x PCIe x16), 2 x PCIe x4	-
ASMB-310IR-00A1E	6 SATA + 8 SAS/ SATA	4 x PCIe x8 (or 2 x PCIe x16), 1 x PCIe x4	Yes

Packing List

Part Number	Description	Quantity
1700003194	SATA data cables	x 2
1960048321T000	I/O shield	x 1
2066310R00	Driver CD	x 1
2006310R10	Startup manual	x 1
1960048304N001	CPU Coolers (For 2U/4U system)	x 2
1703150102	SATA power cable	x 2

Bracket View



ASMB-310-00A1E



ASMB-310IR-00A1E

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