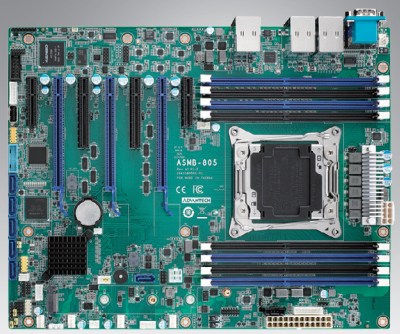
ASMB-805

LGA 2066 Intel® Xeon® W Workstation Motherboard with 8 DDR4, 3 PCIe x16, 6 SATA3, 8 USB3.0, IPMI

NEW



CE FCC

Features

- ATX workstation motherboard with Xeon® W-2100 and W-2200 processors
- DDR4 2666 MHz RDIMM up to 512 GB
- Three PCIe x16 (or one x16 and four x8)
- Workstation 1S up to 4.00 GHz
- Six SATA3 and one M.2 22110/2280/2242 connectors (PCIe)
- 0 ~ 60 °C ambient operating temperature range

Specifications

Form Factor		ATX form factor
Processor System	Socket	Intel LGA 2066
	CPU type	Intel Xeon W-2100 and W-2200 (CPU cooler should be purchased separately and TDP up to 165W)
Core Logic	Chipset	Intel C422 chipset
Memory	Total slots	8 (2 DIMM per channel)
	Capacity	Maximum 256GB ECC RDIMM Maximum 512GB ECC LRDIMM
	Memory type	DDR4 ECC-REG 2133/2400/2666 MHz DIMM
	Memory size	4 GB, 8 GB, 16 GB, 32 GB (RDIMM), 64 GB (LRDIMM)
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	PCIe x4 slot (x4 link), signal from PCH
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU
	Slot location 3	PCIe x8 slot (0 or x8 link), signal from CPU
	Slot location 4	PCIe x16 slot (x8 or x16 link), signal from CPU
	Slot location 5	PCIe x8 slot (0 or x8 link), signal from CPU
	Slot location 6	PCIe x16 slot (x8 or x16 link), signal from CPU
	Slot location 7	PCIe x4 slot (x4 link), signal from PCH
Graphics	VGA	Aspeed AST 2500 (Optional)
Storage	SATA controller	Intel C422: 6 x SATA3 (600 MB/s) support software RAID 0,1,5,10
	SAS controller	-
Networking	GbE LAN	2 x Intel I210AT
Onboard I/O Connector	PSU connector	24-pin SSI power connector + 1 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector
	USB connector	4 x USB2.0 ports (two onboard headers) + 2 x USB3.0 ports (one onboard header) + 1 x Type-A USB2.0 port
	Fan header	6 x 4-pin (5 for system + 1 for CPU)
	M.2	1 x M.2 22110/2280/2242 B+M key (PCIe)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	1
	Audio Header	1
	PS/2 KB/Mouse	1
	Serial port header	1
Rear I/O Connector	External serial port	1
	External USB port	6 (USB3.0)
	VGA port	1 (Optional)
	RJ-45	3 (1 port dedicated for IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Optional
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec

Power Requirement	Power On	3.3V	5V	12V	5Vsb	-12V	12V_8P
	(165W CPU@3.4GHz DDR4 2400 32GB*8)	0.88A	0.43A	0.65A	0.05A	0A	12.74A

Environment		Operating	Non-operating
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution	-40 ~ 85 °C
	Humidity	10% ~ 95%	10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")	

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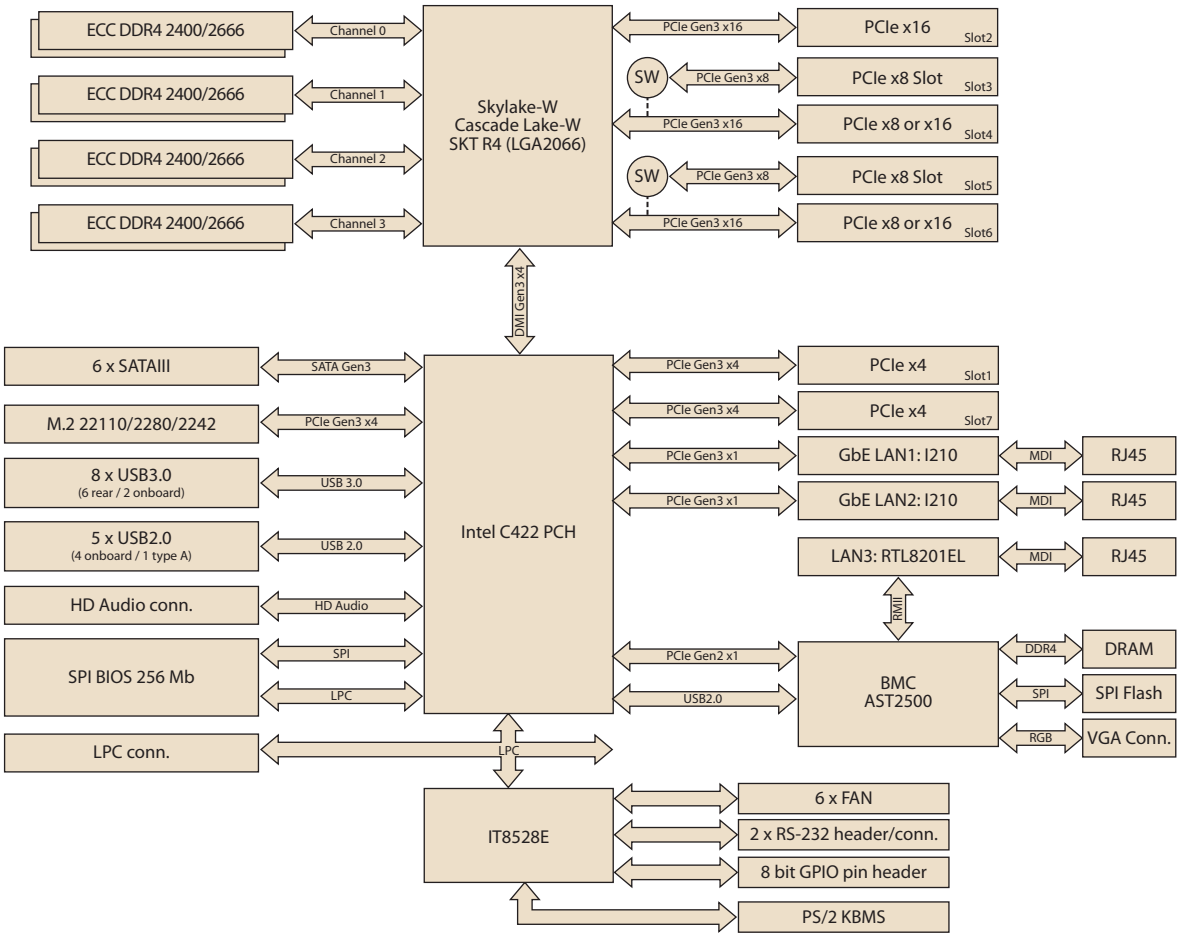
Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE	IPMI	Graphics
ASMB-805-00A1	C422	DDR4 RDIMM	2	-	-
ASMB-805I-00A1	C422	DDR4 RDIMM	2	Yes	AST2500

Packing List

Part Number	Description	Quantity
2041080500	Startup manual	x 1
1700003194	SATA data cables	x 1
1700019381	SATA data cable (right angle)	x 1
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 1
1930005673-11	Screw for M.2 device	x 1
1960076488T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960055362N001	LGA2066 square CPU cooler for 2U/4U chassis (145W)
1960065684N011	LGA2066 square CPU cooler for 4U chassis (165W)
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable (40 cm) with bracket
1700019268-11	PS/2 port cable (35 cm)
1960063434N000	Cable bracket for 1700019268-11
PCA-COM232-00A1E	4 ports RS-232 module
PCA-COM485-00A1E	4 ports RS-422/485 module

I/O View

ASMB-805I-00A1

ASMB-805-00A1