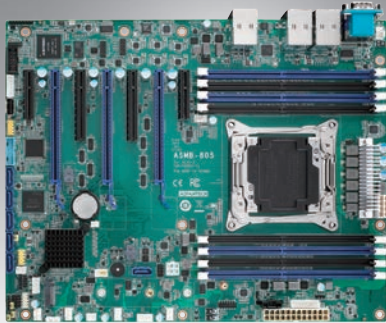


ASMB-805

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

NEW



CE FCC

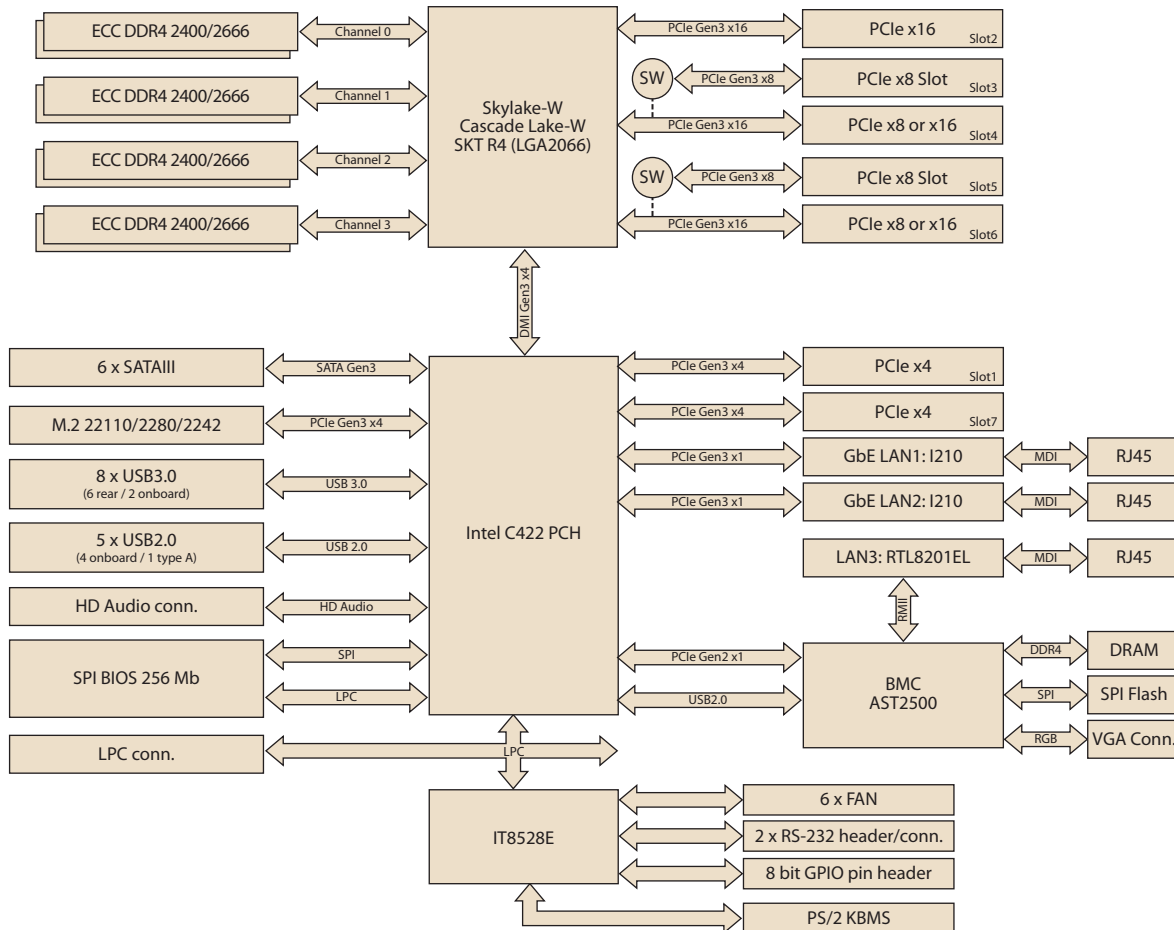
Features

- 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					
	Total slots	8 (2 DIMM per channel)					
Memory	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)					
	Total PCI/PCI-X/PCIe slots	7					
Expansion Slots	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					
Rear I/O Connector	Serial port header	1					
	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	Temperature	Operating 0 ~ 60 °C, depends on CPU speed and cooler solution				Non-operating -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")			

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 2.0 cable (27 cm / 10.6 in) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm / 12 in) with bracket
1700028292-01	Dual port USB 3.2 (Gen1) cable (30 cm / 11.8 in) with bracket
1701090401	Single port RS-232 COM cable (40 cm / 15.7 in) with bracket
1700019268-11	Cable for onboard KBMS1 connector (35 cm / 13.7 in)
1960063434N000	Cable bracket for 1700019268-11
PCA-COM232-00A1E	4 ports RS-232 module to LPC connector
PCA-COM485-00A1E	4 ports RS-485 module to LPC connector

I/O View



ASMB-805I-00A1



ASMB-805-00A1

Note: PCA-AUDIO-HDB1E is not compatible with Advantech 3U chassis.