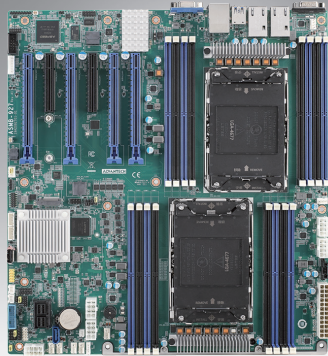


ASMB-927

Dual LGA4677 4th Gen Intel® Xeon® Scalable EATX Server Board with 16 DDR5, 4 PCIe x16, 9 SATA3.0, 6 USB 3.2 (Gen1), Dual 10GbE, and IPMI



CE FCC

Features

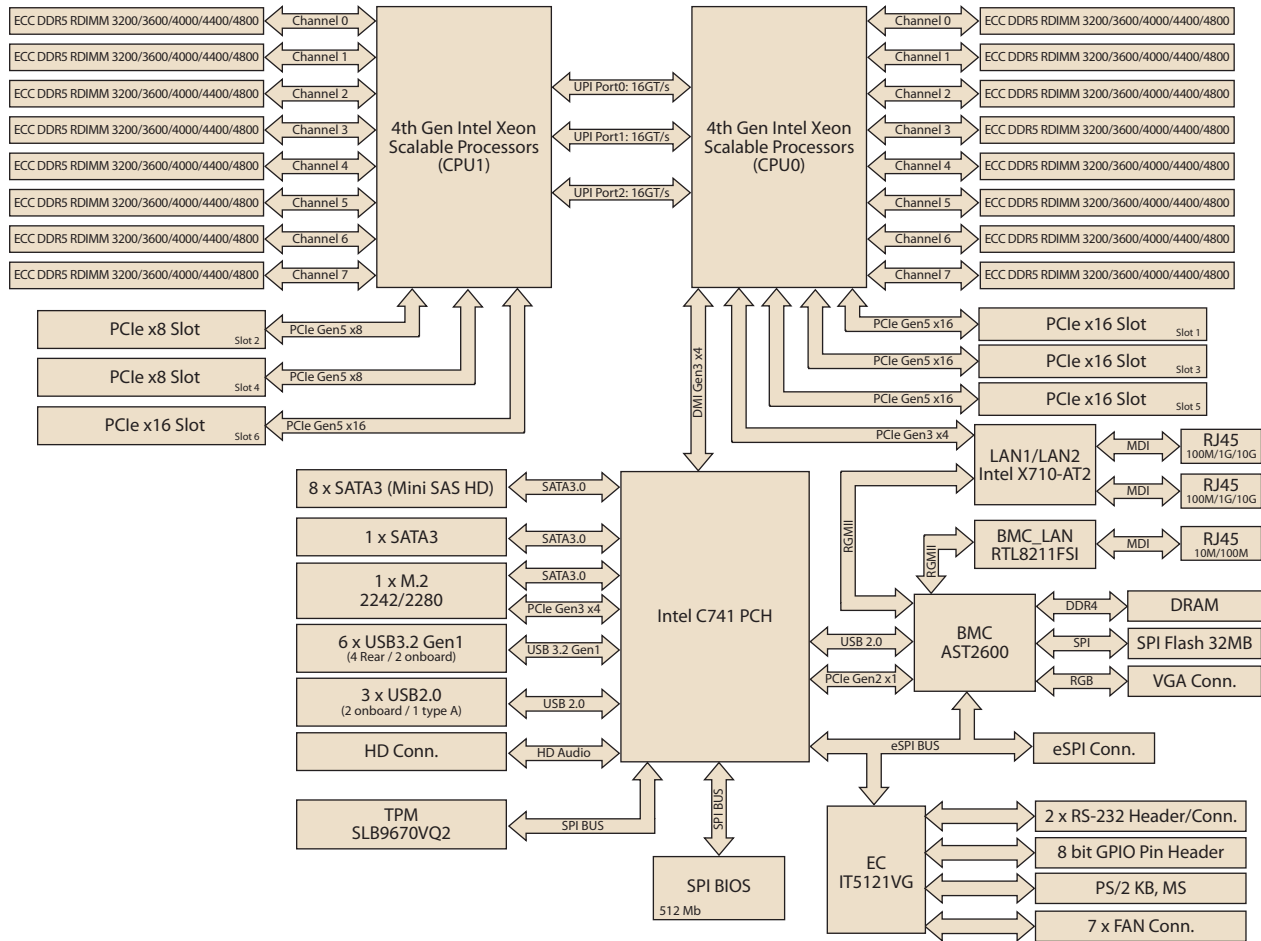
- LGA4677 EATX server board with 4th Gen. Xeon® Scalable processor
- DDR5 4800 MHz RDIMM up to 4TB (16 DIMMs) supports Intel® Optane™ Persistent Memory
- Four PCIe x16 and two PCIe x8
- Intel® X710-AT2 dual 10GbE ports
- Nine SATA3.0 and one M.2 connector (SATA/PCIe compatible)
- 0 ~ 40 °C ambient operating temperature range

Specifications

Form Factor		EATX form factor
Processor System	Socket	Dual Intel LGA4677
	CPU type	Intel 4th Generation Xeon Scalable processors (CPU cooler should be purchased separately and TDP up to 205W*)
Core Logic	Chipset	Intel C741 chipset
Memory	Total slots	16 (1 DIMM per channel)
	Capacity	Maximum 4TB ECC RDIMM
	Memory type	DDR5 ECC-REG 3200/3600/4000/4400/4800 MHz RDIMM
	Memory size	16GB, 32GB, 64GB, 128GB, 256GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	6
	Slot location 1	PCIe x16 slot (x16 link), signal from CPU0, CXL support
	Slot location 2	PCIe x8 slot (x8 link), signal from CPU1
	Slot location 3	PCIe x16 slot (x16 link), signal from CPU0, CXL support
	Slot location 4	PCIe x8 slot (x8 link), signal from CPU1
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU0, CXL support
Graphics	VGA	Aspeed AST2600
	SATA controller	Intel® C741: 8 x SATA3.0 (6 Gb/s) via Mini SAS HD (SFF-8643), support software RAID 0,1,5,10
Storage	SAS controller	-
	Networking	Intel® X710-AT2 (dual 10GbE ports)
Onboard I/O Connector	PSU connector	24-pin SSI power connector + 5 x 8-pin SSI 12 V power connector
	USB connector	2 x USB 2.0 ports (one onboard header) + 2 x USB 3.2 Gen1 ports (one onboard header) + 1 x Type-A USB 2.0 port
	Fan header	7 x 4pin (5 for system + 2 for CPU)
	M.2	1 x M.2 2242/2280 B+M key (SATA and PCIe)
	SMBus	1
	Chassis intrusion	1
	Front LAN LED	1
	Audio Header	1
	PS/2 Keyboard/Mouse header	1
	Serial port header	1
Rear I/O Connector	External serial port	1
	External USB port	4 x USB3.2 Gen1
	VGA port	1
	RJ-45	3 (1 port dedicated for IPMI function)
	PS/2 Keyboard/Mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 5V 12V 5Vsb -12V 12V_8P
	(205W CPU@1.6GHz DDR5 4800 64G*16)	2.2A 1.9A 0.3A 0.1A 0A 38.53A
Environment	Operating	Non-operating
	Temperature	0 ~ 40 °C/ 32 ~ 104 °F, depends on CPU speed and cooler solution
	Humidity	10% ~ 95%
Physical Characteristics	Dimension (L x H)	304.8 x 330.2 mm (12" x 13")

*CPU power design support up to 225W TDP. Please consider extended air thermal solution while using CPU > 205W TDP.

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-927T2-00A1	C741	16 x DDR5 RDIMM	-/2	Yes	AST2600

Packing List

Part Number	Description	Quantity
2042092700	Startup manual	x 1
1700003194	SATA data cables	x 1
1700022749-11	SATA power cables	x 1
1700019748	CPU power cable	x 2
1930005673-11	Screw for M.2 device	x 1
1960105615T001	I/O shield	x 1
1651003739-01	LGA4677 CPU carrier-E1B	x 2

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
1970005860N000	LGA4677 CPU cooler for 2U/4U chassis (205W)
1700028025-01	Dual port USB 2.0 cable (45 cm / 17.7 in) with bracket
1700028024-01	Dual port USB 3.2 (Gen1) cable (45 cm / 17.7 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
1960115544N001	For 1U chassis I/O shield

Note:
 1. PCA-AUDIO-HDB1E is not compatible with Advantech 3U chassis.
 2. Select SATA cable (SFF-8643) from HPC chassis datasheet or contact sales representative.

I/O View



ASMB-927T2-00A1