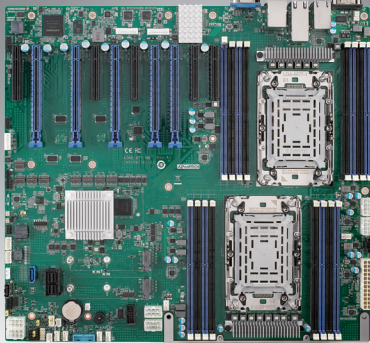


# ASMB-977

## Dual 4th Gen Intel® Xeon® Scalable Server Board with 16x DDR5, 5x PCIe x16, 9x SATA 3, 4x USB 3.2 (Gen 1), Dual 10GbE, and IPMI



### Features

- LGA4677 server board with 4th Gen Intel® Xeon® scalable processor
- DDR5 4400/4800 MHz RDIMM up to 4TB (16 DIMMS), and Intel® Optane™ support
- Features 5x PCIe x16 and 5x PCIe x8
- Intel® X710-AT2 dual 10GbE ports
- Nine SATA 3 and two M.2 connectors (SATA/PCIe compatible)
- 0 ~ 40 °C ( 32 ~ 104 °F) ambient operating temperature range

CE FCC

### Specifications

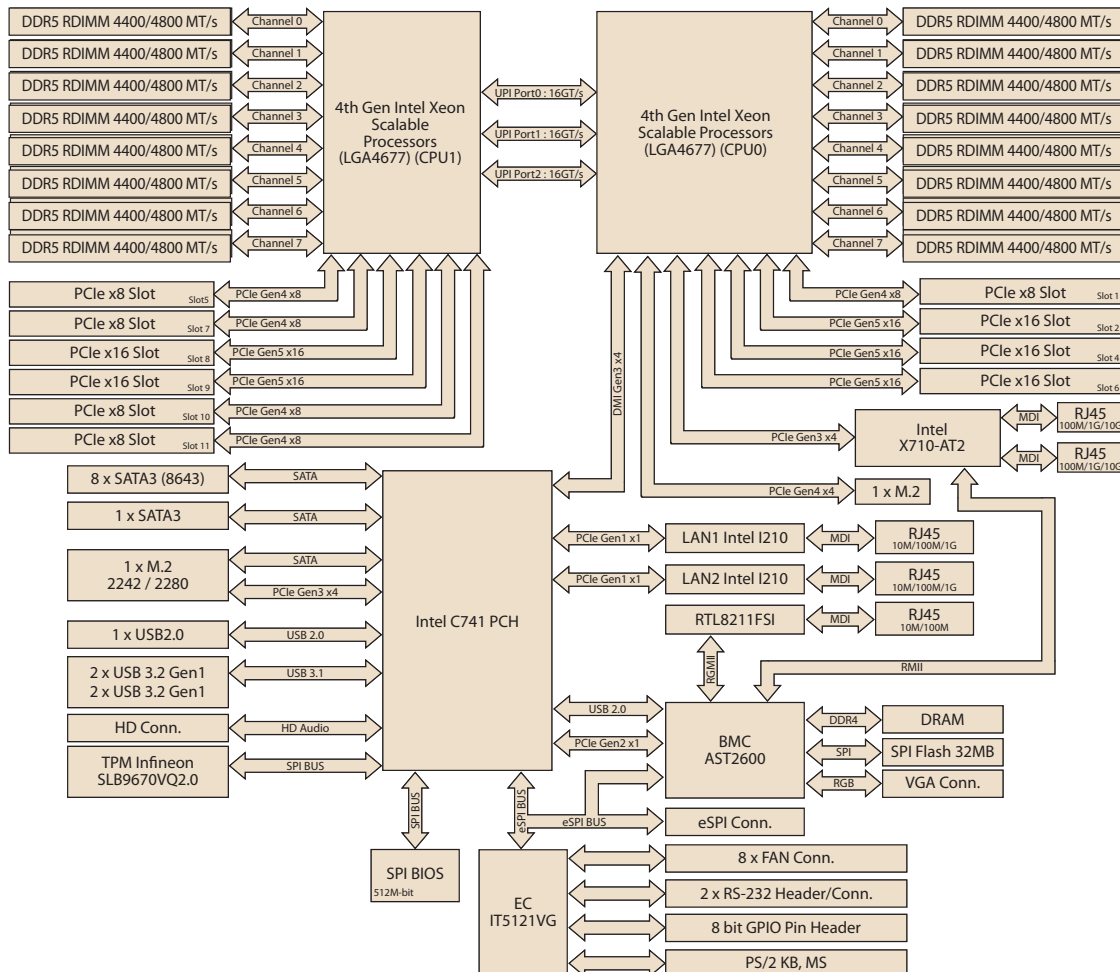
Form Factor	Proprietary							
Processor System	Socket	Dual Intel® LGA4677 (Socket E)						
	CPU type	4th Gen Intel Xeon Scalable processors (CPU cooler should be purchased separately*)						
Core Logic	Chipset	Intel® C741 chipset						
	Total slots	16x (1 DIMM per channel)						
Memory	Capacity	Maximum 4TB ECC RDIMM						
	Memory type	DDR5 ECC-REG 4400/4800 MHz RDIMM, supports Intel® Optane™ Persistent Memory						
	Memory size	16GB, 32GB, 64GB, 128GB, 256GB						
	Total PCIe slots	10						
Expansion Slots	Slot location 1	PCIe x 8 slot (Gen4 x8 link), signal from CPU0						
	Slot location 2	PCIe x 16 slot (Gen5 x16 link), signal from CPU0, CXL support**						
	Slot location 3	N/A						
	Slot location 4	PCIe x 16 slot (Gen5 x16 link), signal from CPU0, CXL support**						
	Slot location 5	PCIe x 8 slot (Gen4 x8 link), signal from CPU1						
	Slot location 6	PCIe x 16 slot (Gen5 x16 link), signal from CPU0, CXL support**						
	Slot location 7	PCIe x 8 slot (Gen4 x8 link), signal from CPU1						
	Slot location 8	PCIe x 16 slot (Gen5 x16 link), signal from CPU1, CXL support**						
	Slot location 9	PCIe x 16 slot (Gen5 x16 link), signal from CPU1, CXL support**						
	Slot location 10	PCIe x 8 slot (Gen4 x8 link), signal from CPU1						
	Slot location 11	PCIe x 8 slot (Gen4 x8 link), signal from CPU1						
Graphics	VGA	Aspeed AST 2600						
Storage	SATA controller	Intel® C741: 8 x SATA3.0 (6 Gb/s) via Mini SAS HD (SFF-8643), support software RAID 0,1,5,10						
	SAS controller	1 x SATA3.0 (6 Gb/s)						
Networking	GbE/10GbE LAN	2 x Intel® I210AT / Intel® X710-AT2 (dual 10GbE ports)						
	PSU connector	24-pin SSI power connector + 6 x 8-pin SSI 12 V power connector***						
Onboard I/O	USB connector	2 x USB 3.2 Gen 1 ports (one onboard header) + 1 x Type-A USB 2.0 port						
	Fan header	7 x 4-pin (2 for CPU + 5 for system) + 2 x 8-pin (for external rear fan)						
	M.2	1 x M.2 2242/2280 B+M key (SATA and PCIe) + 1 x M.2 2242/2280 B+M key (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		2 (USB 3.2 Gen1)						
VGA port		1						
RJ-45		5 (1 port dedicated for IPMI function) for T2 SKU/3 (1 port dedicated for IPMI function) for I SKU						
PS/2 KB/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 Requirements	Power On	3.3V	5V	12V	5Vsb	-12V	8P_CPU0	8P_CPU1
	(205W CPU@1.6GHz DDR5 4800 64G*16)	2.43A	1.76A	18.12A	1.54A	0A	16.29A	13.91A
Environment	Operating	Non-operating						
	Temperature	0 ~ 40 °C (32 ~ 104 °F), depends on CPU speed and cooler solution						
	Humidity	10% ~ 95%						
Physical Characteristics	Dimensions (L x H)	380 x 349.5 mm (14.96" x 13.76")						
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\*CPU power design support up to 270W TDP. Please consider extended air thermal solution while using CPU > 270W TDP.

\*\*CXL 1.1 Type 1 and Type 2 device.

\*\*\*Please connect all 8-pin CPU PWR Conn. (ATX12V1/ ATX12V2/ ATX12V3/ ATX12V4) when using dual CPU both up to 205W TDP.

## Block Diagram



## Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-9771-00A1	C741	16 x DDR5 RDIMM	2/-	Yes	AST 2600
ASMB-977T2-00A1	C741	16 x DDR5 RDIMM	2/2	Yes	AST 2600

## Packing List

Part Number	Description	Quantity
2042097700	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
1960093947T002	I/O shield	x 1
1651003739-01	LGA4677 CPU carrier - E1B (MCC)	x 2

## Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
1970005860N000	LGA4677 CPU cooler for 2U/4U chassis (270W)
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

Note:

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

## I/O View



ASMB-9771-00A1



ASMB-977T2-00A1

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.