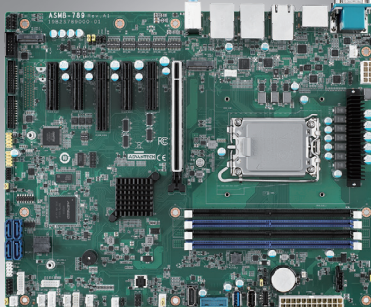


ASMB-789

**LGA 1851 Intel® Core™ Ultra 9/7/5 ATX
Server Board with 4 x DDR5,
6 x PCIe (2 x Gen 5, 4 x Gen 4),
8 x USB 3.2, 4 x SATA3, Quad/Dual LANs**



Features

- LGA 1851 Intel® Core™ Ultra 9/7/5 processors with W880 chipset
- DDR5 ECC/Non-ECC 5600/4800/4400/MT/s UDIMM up to 192 GB
- one PCIe x 16 (Gen5), one PCIe x 8 (Gen5) and five PCIe x 4 slots
- Triple displays - DP 1.4, VGA, and HDMI 2.1 TMDS ports
- Four SATA 3 ports and Eight USB 3.2 ports
- One M.2 2280 (PCIe x4)
- Rackmount optimized placement with positive air flow design
- 0 ~ 60 °C (32 ~ 140 °F) ambient operating temperature range

Note: Supported OS including Windows 10/ 11 (64-bit) and Server 2022 (64-bit) have been validated.

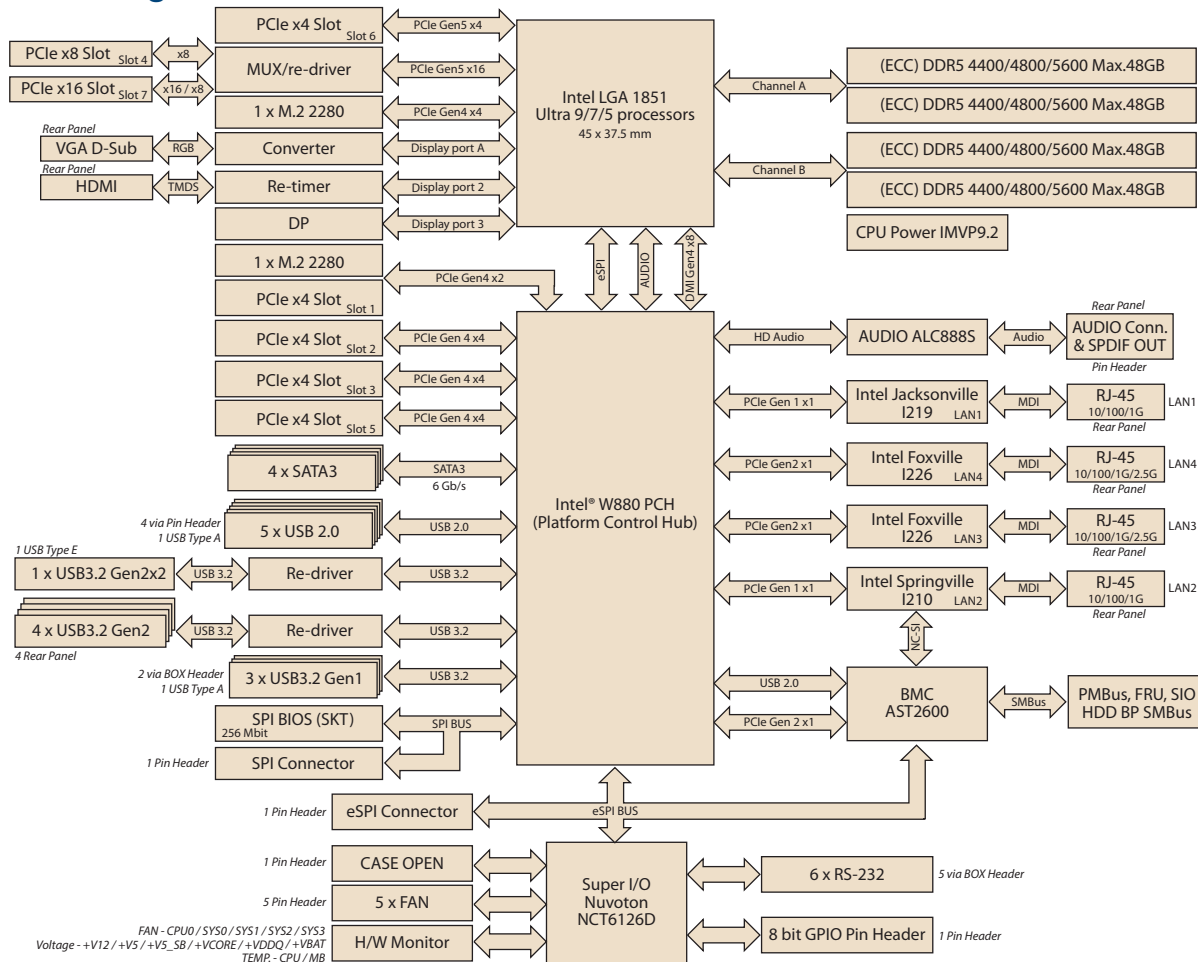
CE FCC

Specifications

Form Factor	ATX form factor
Processor System	Socket Intel® LGA 1851
	CPU type Intel® Core™ Ultra 9/7/5 processors (TDP up to 125W)
Core Logic	Intel® W880 chipset
Memory	Total slots 4 x (Dual Channel)
	Max. capacity 192GB
	Memory type 5600*/4800/4400 MT/s UDIMM(288-pin)
	Memory size 8 GB, 16 GB, 24 GB, 32 GB, 48 GB
Expansion Slots	Total PCI/PCIe slots 7
	Slot location 1 1 x M.2 2280 (PCIe G4 x2 link) or (Option: 1 x PCIe x 4 slot for G2 version)
	Slot location 2 PCIe x 4 slot (Gen 4 x 4 link)
	Slot location 3 PCIe x4 slot (Gen 4 x4 link)
	Slot location 4 PCIe x8 slot (Gen5 x8 link)
	Slot location 5 PCIe x 4 slot (Gen 4 x 4 link)
	Slot location 6 PCIe x 4 slot (Gen 4 x 4 link)
	Slot location 7 PCIe x16 slot (Gen5 x8 or x16 link)
Graphics	Controller Intel® HD Graphics
	VRAM 1 GB maximum shared memory with 2 GB and above system memory installed
Storage	SATA controller Intel® W880: 4 SATA3 6 Gb/s ports with Intel Rapid Storage Technology support (for Windows only) (Supports software RAID 0, 1, 10, & 5)
	SAS controller -
Networking	Interface 10/100/1000 Mbps
	Controller GbE LAN1: Intel® I219; GbE LAN2: Intel® I210-AT; GbE LAN 3-4: Intel® I226
	Connector RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version
Onboard I/O Connector	Printer Port connector -
	PSU connector 24-pin SSI power connector + 8-pin SSI 12V power connector
	USB connector 9 (1 x USB 3.2 Gen 1 (2 ports), 2 x USB2.0 (4 port), 1 x USB Gen2 Type E, 1 x USB3.2 Gen1 Type-A, 1 x USB2.0 Type-A)
	M.2 connector 1 x M.2 2280 (PCIe G4 x4 link)
	Option: 1 x M.2 2280 for G4 sku (PCIe G4 x2 link)
	Fan header 5 x (4-pin)
	SMBus 1
	Chassis intrusion 1
	Front LAN LED 2
	Serial port header 5 (2 x RS-232 dual-port (4 ports), 1 x RS-232 single-port)
	Audio connector 1 x (ALC 888S)
	PS/2 KB/Mouse -
Rear I/O Connector	External serial port 1
	External USB port 4 x (USB 3.2 Gen 2)
	VGA port 1 x (Resolution up to 1920 x 1200 @ 60 Hz)
	HDMI port 1 x (Resolution up to 4096 x 2160 @ 60 Hz)
	Display Port 1 x (Resolution up DP* with DSC to 8K60 Hz 36bpp)
	RJ-45 2 for G2 sku; 4 for G4 sku
	Audio connector 2 x (Mic-in, Line-out)
	PS/2 KB/Mouse -
Watchdog Timer	Output System reset
	Interval Programmable 1 ~ 255 sec
Power Requirement	Power On 3.3 V 5 V 12 V 12 V_8P 5 VSB
	(Ultra9 285 3.7GHz DDR5 5600 32 GB x 4) 2.02 A 2.54 A 0.39 A 0.69 A 0.09 A
Environment	Operating Non-operating
	Temperature 0 ~ 60 °C, depends on CPU speed and cooler solution -40 ~ 85 °C
	Humidity 40 °C @ 95% RH Non-condensing 60 °C @ 95% RH Non-condensing
Physical Characteristics	Dimensions 304.8 x 244 mm (12 x 9.6 in)

* 5600MT/s can only be supported with 1 DIMM per channel configuration (2 DIMMs in total).

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	LAN	SATAIII	IPMI
ASMB-789G2-00A1	W880	DDR5 Non-ECC/ECC UDIMM	VGA + DP + HDMI	2	4	-
ASMB-789G4-00A1	W880	DDR5 Non-ECC/ECC UDIMM	VGA + DP + HDMI	4	4	Y
ASMB-789G4-00A1U	W880	DDR5 Non-ECC/ECC UDIMM	VGA + DP + HDMI	4	4	Y

Packing List

Part Number	Description	Quantity
2042078900	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1960119032T001	I/O shield (for 2U chassis or higher)	x 1
1930005673-11	Screw for M.2 device	x 1

I/O View



ASMB-789G4-00A1

Optional Accessories

Part Number	Description
1700029038-01	BMC VGA cable with bracket (35 cm / 13.7 in, for G4 SKU)

Note: If you need BMC KVM function, please select this cable.

Part Number	Description
1970005958N001	LGA 1700 CPU Cooler for 3U/4U Tower Cooler (CPU 230W at ambient 30°C)
1970005436T001	LGA 1700 CPU cooler for 2U/4U chassis (CPU 125W)
1970005349T000	LGA 1700 CPU cooler for 2U/4U chassis (CPU under 65W)
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 3.0 cable (30 cm / 11.8 in) with bracket
1701090401	Single port RS-232 COM cable (40 cm / 15.7 in) with bracket
1700026254-01	Dual-port RS-232 COM cable (45 cm / 17.7 in) with bracket
1700036239-01	M cable USB-E 20P(M)/USB-C 24P(F) 65cm W/BKT 3.2
PCA-TPMSPI-00A1	TPM 2.0 Module by SPI

Note: Users need to purchase the ASMB-789 proprietary CPU cooler from Advantech. Other brands of CPU cooler may NOT be compatible with ASMB-789.

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