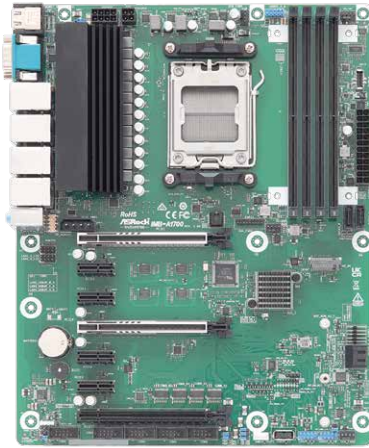


IMB-A1700

ATX Motherboard



KEY FEATURES

- AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors with B650 Chipset
- 4 x 288-pin ECC/non-ECC U-DIMM DDR5 5600 MHz, up to 256GB (64GB per DIMM)
- 1 x PCIe x16 (Gen5), 1 x PCIe x8 (Gen5), 1 x PCIe x4 (Gen4), 4 x PCIe x1 (Gen4), 7 x USB 3.2 Gen2, 8 x USB 2.0, 1 x M.2 Key M, 6 x COM, 4 x SATA3
- 1 x Intel® 1 Gigabit LAN, 1 x Intel® 2.5 Gigabit LAN, 2 x Realtek® 2.5 Gigabit LAN
- Supports Quad display, 2 x HDMI 2.0b, 2 x DP 1.2++ (1 from Type-C header)
- TPM 2.0 onboard IC
- Supports RAID 0/1/10
- ATX PWR

SPECIFICATIONS

Form Factor

Dimensions	ATX (12-in x 9.6-in x 1.81-in, 30.5 cm x 24.4 cm x 4.61 cm)
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Processor System

CPU	Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Desktop Processors, up to 170W
Chipset	AMD B650
Socket	AM5
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel ECC/non-ECC DDR5 5600 MHz *ECC support may vary by CPU
Capacity	256 GB (64 GB per DIMM)
Socket	4 x 288-pin Long-DIMM

Graphics

Controller	AMD RDNA™ 2 Architecture
HDMI	HDMI 2.0b Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad Display (Included 1 output from Type-C)

Expansion Slot

PCIe	2 x PCIe Gen5 Slots (PCIe1/PCIe4: single at x16 (PCIe1); dual at x8 (PCIe1) / x8 (PCIe4)) (PCIe1: Support Riser card x8/x8) 1 x PCIe x4 (Gen4) 4 x PCIe x1 (Gen4)
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Audio

Interface	Realtek® ALC897, High Definition Audio. Line-out, Mic-in, Line-in
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Ethernet

Controller/ Speed	LAN1: Intel® I210AT with 10/100/1000 Mbps LAN2: Intel® I226V with 10/100/1000/2500 Mbps LAN3: Realtek® RTL8125BG with 10/100/1000/2500 Mbps LAN4: Realtek® RTL8125BG with 10/100/1000/2500 Mbps
Connector	4 x RJ-45

Rear I/O

HDMI	2 x HDMI 2.0b
DisplayPort	1 x DP 1.2++
Ethernet	1 x 1 Gigabit LAN 3 x 2.5 Gigabit LAN
USB	7 x USB 3.2 Gen2 1 x USB 2.0
Audio	3 (Mic-in, Line-in, Line-out)
COM	COM1 (RS-232/422/485)

Internal Connector

USB	1 x USB 2.0 (Type-A vertical con) 6 x USB 2.0 (3 x USB 2.0 header) 1 x USB 3.2 Gen2 (Type-C header, 5V/3A, supports DP 1.2 display output)
COM	COM2 (RS-232/422/485) COM3, COM4, COM5, COM6 (RS-232)

Storage

M.2	1 x M.2 (Key M, 3042/2280/25110) with PCIe Gen4 x4 and USB 2.0 for SSD
SATA	4 x SATA3 (6Gb/s)
RAID	Support RAID 0/1/10

Security

TPM	TPM 2.0 onboard IC
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Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

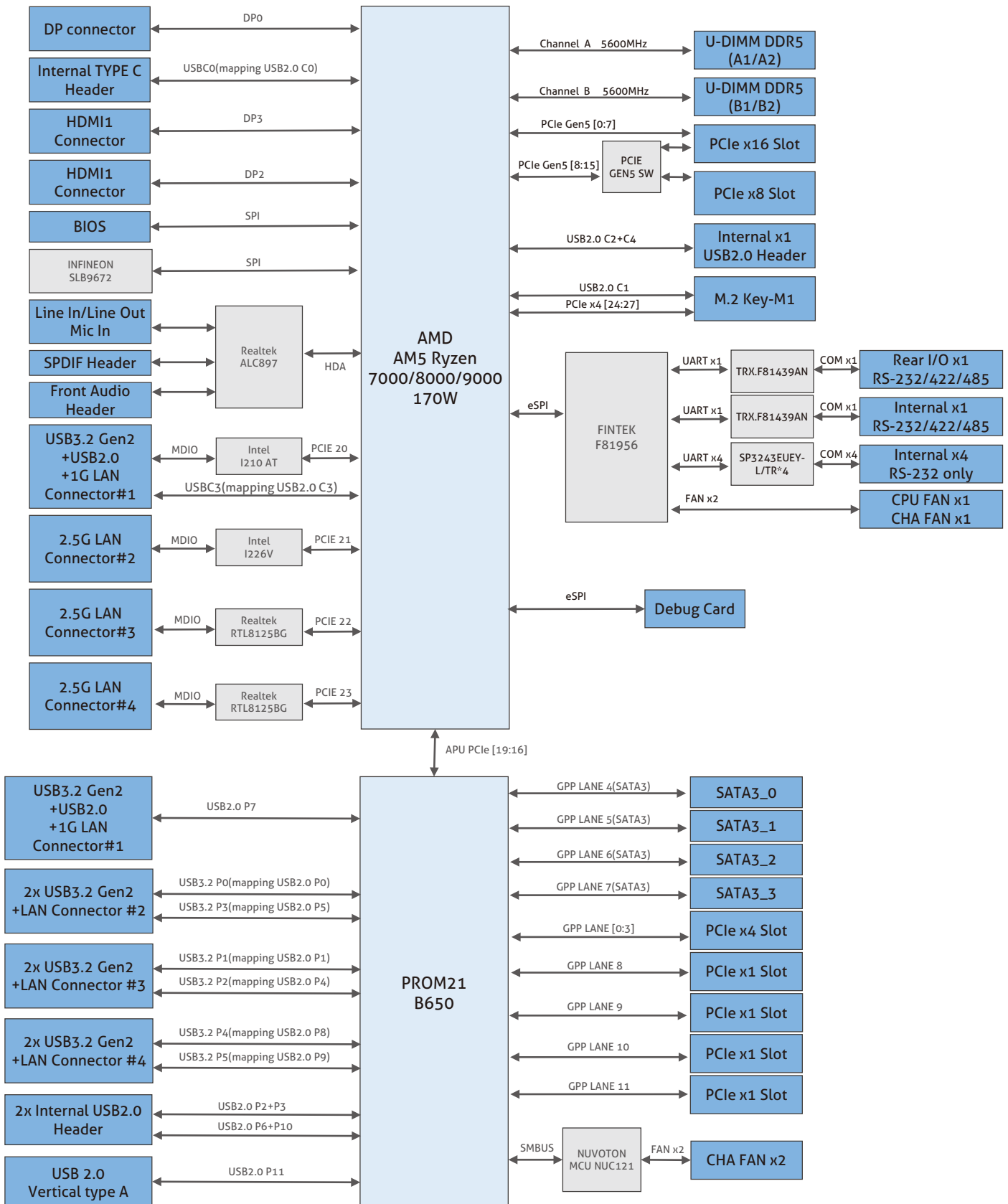
Power Requirements

Input PWR	ATX PWR (24+8-pin)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	-20°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

BLOCK DIAGRAM



ATX Motherboard

Ordering Information

Packing List (Gift)

Packing List (Bulk)