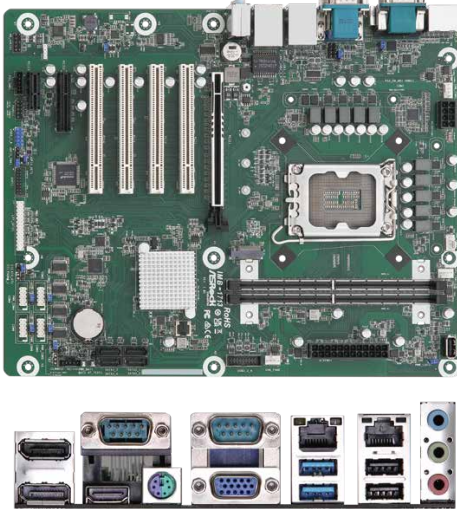




IMB-1713

ATX Motherboard



KEY FEATURES

- Intel® 13th/12th Gen (Raptor Lake-S/Alder Lake-S) Core™ Processors with H610 chipset
- 2 x 288-pin Long-DIMM DDR5 4800 MHz (Alder Lake-S); DDR5 4800/5600 MHz (Raptor Lake-S), up to 64GB (32GB per DIMM)
- 1 x PCIe x16 (Gen5), 1 x PCIe x4 (Gen3), 1 x PCIe x1 (Gen3), 4 x PCI
- 2 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 5 x USB 2.0
- 1 x M.2 Key M, 6 x COM, 4 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Realtek 2.5 Gigabit LAN with PoE function
- Supports Triple display, 1 x HDMI 2.0b, 2 x DP 1.4a, 1 x VGA
- TPM 2.0 onboard IC
- ATX PWR (8+24pin)

SPECIFICATIONS

Form Factor

Dimensions	ATX (12-in x 9.6-in x 1.4-in, 30.5 cm x 24.4 cm x 3.6 cm)
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Processor System

CPU	Intel® 13th/12th Gen (Raptor Lake-S/Alder Lake-S) Core™ Processors, up to 125 W
Chipset	Intel® H610
Socket	LGA1700
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR5 5600/4800MHz (Raptor Lake-S), DDR5 4800 MHz (Alder Lake-S) - Intel Core i9/i7 CPUs support DDR5 up to 5600 MHz (Raptor Lake-S) - Intel Core i5/i3/Pentium/Celeron CPUs support DDR5 up to 4800 MHz (Raptor Lake-S)
Capacity	64GB (32GB per DIMM)
Socket	2 x 288-pin Long-DIMM

Graphics

Controller	Intel® UHD Graphics
HDMI	HDMI 2.0b Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096x2160@60Hz
VGA	Max resolution up to 1920x1200@60Hz
MultiDisplay	Triple Display

Expansion Slot

PCIe	1 x PCIe x16 (Gen5) 1 x PCIe x4 (Gen3) 1 x PCIe x1 (Gen3)
PCI	4

Audio

Interface	Realtek ALC897, High Definition Audio. Line-In, Line-Out, Mic-In
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Ethernet

Controller/ Speed	LAN1: Realtek® RTL8125BG with 10/100/1000/2500 Mbps, supports PoE LAN2: Intel® I219V with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O

HDMI	1 x HDMI 2.0b
DisplayPort	2 x DP 1.4a++
VGA	1
Ethernet	1 x 1 Gigabit LAN 1 x 2.5 Gigabit LAN
USB	2 x USB 3.2 (Gen2) 2 x USB2.0
Audio	3 (Line-In, Line-Out, Mic-In)
COM	COM1, COM2 (RS-232/422/485)
PS2	1 x PS/2 combo

Internal Connector

USB	2 x USB 3.2 Gen1 (1 x USB 3.1 header) 3 x USB2.0 (1 x 2.54 pitch header, 1 x USB 2.0 Type-A vertical con)
COM	COM3, COM4, COM5, COM6 (RS-232)
Parallel	1 (shared with GPIO)
GPIO	8 x GPI, 8 x GPO (shared with LPT header)
TPM	TPM 2.0 onboard IC
Speaker Header	1

Storage

M.2	1 x M.2 (Key M, 3042/2260/2280/22110) with PCIe Gen3 x 1
SATA	4 x SATA3 (6Gb/s)

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	0°C ~ 70°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

Assured Systems

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