



KEY FEATURES

- AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors with B650 Chipset
- 2 x 262-pin ECC/non-ECC SO-DIMM DDR5 5200 MHz, up to 96GB (48GB per DIMM)
- 1 x PCIe x16 (Gen5), 4 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 4 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 2 x COM, 2 x SATA3
- 2 x Realtek Gigabite LAN
- Supports Quad display, 4 x DP 1.2++
- TPM 2.0 onboard IC

SPECIFICATIONS

Form Factor

Dimensions (LxWxH)	Mini-ITX (6.7-in x 6.7-in x 1.5-in, 17.0 cm x 17.0 cm x 3.7 cm)
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Processor System

CPU	AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Desktop Processors*, up to 65W *The availability of expansion slots may vary by CPU. Please refer to PCIe Bandwidth Table for details
Chipset	AMD Promontory B650
Socket	AM5
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR5 5200 MHz
Capacity	96GB (48GB per DIMM)
Socket	2 x 262-pin SO-DIMM

Graphics

Controller	AMD RDNA™ 2 Architecture
DisplayPort	DisplayPort 1.2, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad Display

Expansion Slot

PCIe	1 x PCIe x16 (Gen5)
M.2	1 x M.2 (Key E, 2230) with PCIe Gen4 x1, USB 2.0 for Wireless

Audio

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

Controller/ Speed	LAN1: Realtek RTL8111H with 10/100/1000 Mbps LAN2: Realtek RTL8111H with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O

DisplayPort	4 x DP 1.2++
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.2 Gen 2 2 x USB 2.0
Audio	2 (Mic-in, Line-out)

Internal Connector

USB	2 x USB 3.2 Gen1 2 x USB 2.0 (1 x 2.54 pitch header)
COM	COM1, COM2 (RS-232/422/485/TTL 5V/ccTalk, switch by Jumper setting)

Storage

M.2	1 x M.2 Key M (2242/2280) with PCIe Gen4 x4, and USB 2.0
SATA	2 x SATA3 (6Gb/s)

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	12~28V DC-In with 4-pin wafer PWR cable or DC Jack(Screw type)
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%