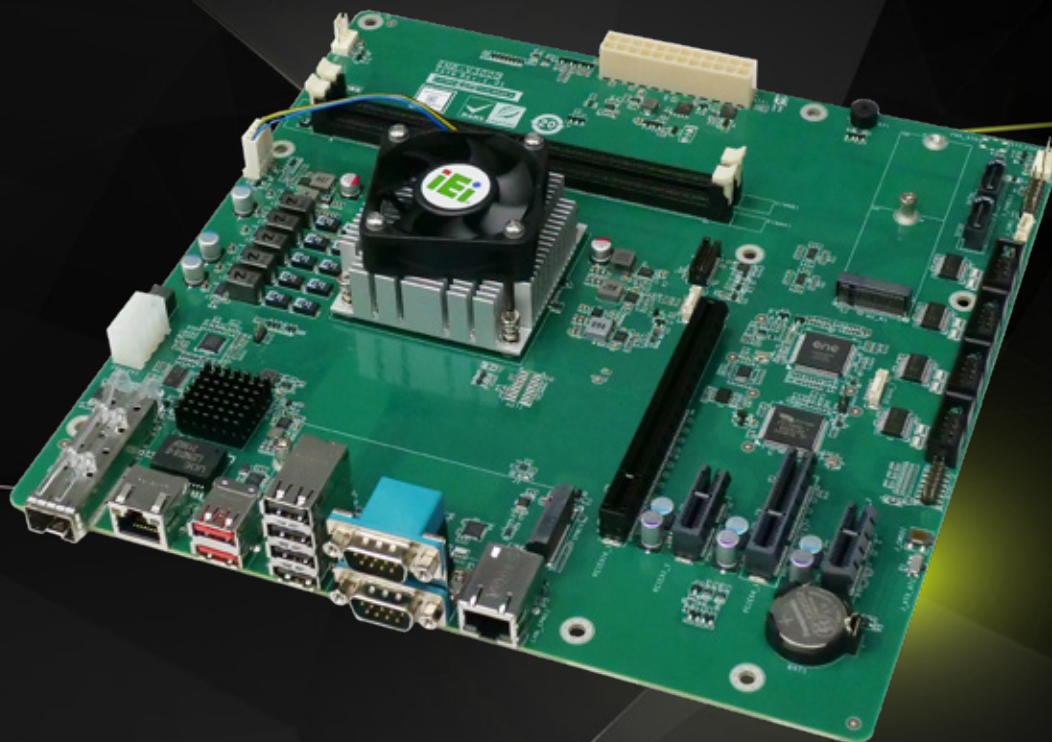


# IMB-V3000

micro-ATX motherboard supports AMD V3000 series processor, DDR5, dual 10GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

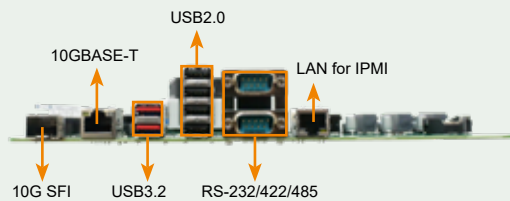
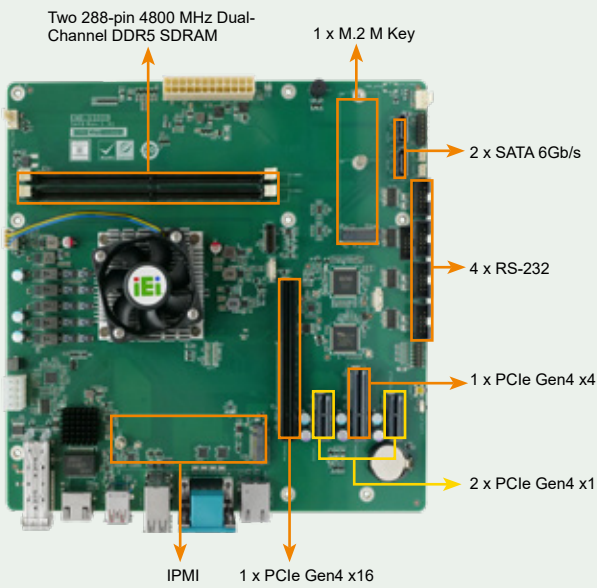
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- AMD V3000 series processor
- Dual-channel DDR5 4800MHz
- Support M key for NVME storage
- High Performance Micro ATX motherboard with PCIe Gen4 expansion Slot



# IMB-V3000

micro-ATX motherboard supports AMD V3000 series processor, DDR5, dual 10GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



## Support AMD V3000 Series Processor

Equipped with AMD V3000 Series on-board processor



## Rich Expansion Slots

It includes one PCIe x16, one PCIe x4, two PCIe x1, M.2 M Key and M.2 B Key for more expansion cards to install.



## Support dual 10GbE Network Controller

10G SFI and 10GBASE-T network controller to achieve up to 10GbE network transmission rate

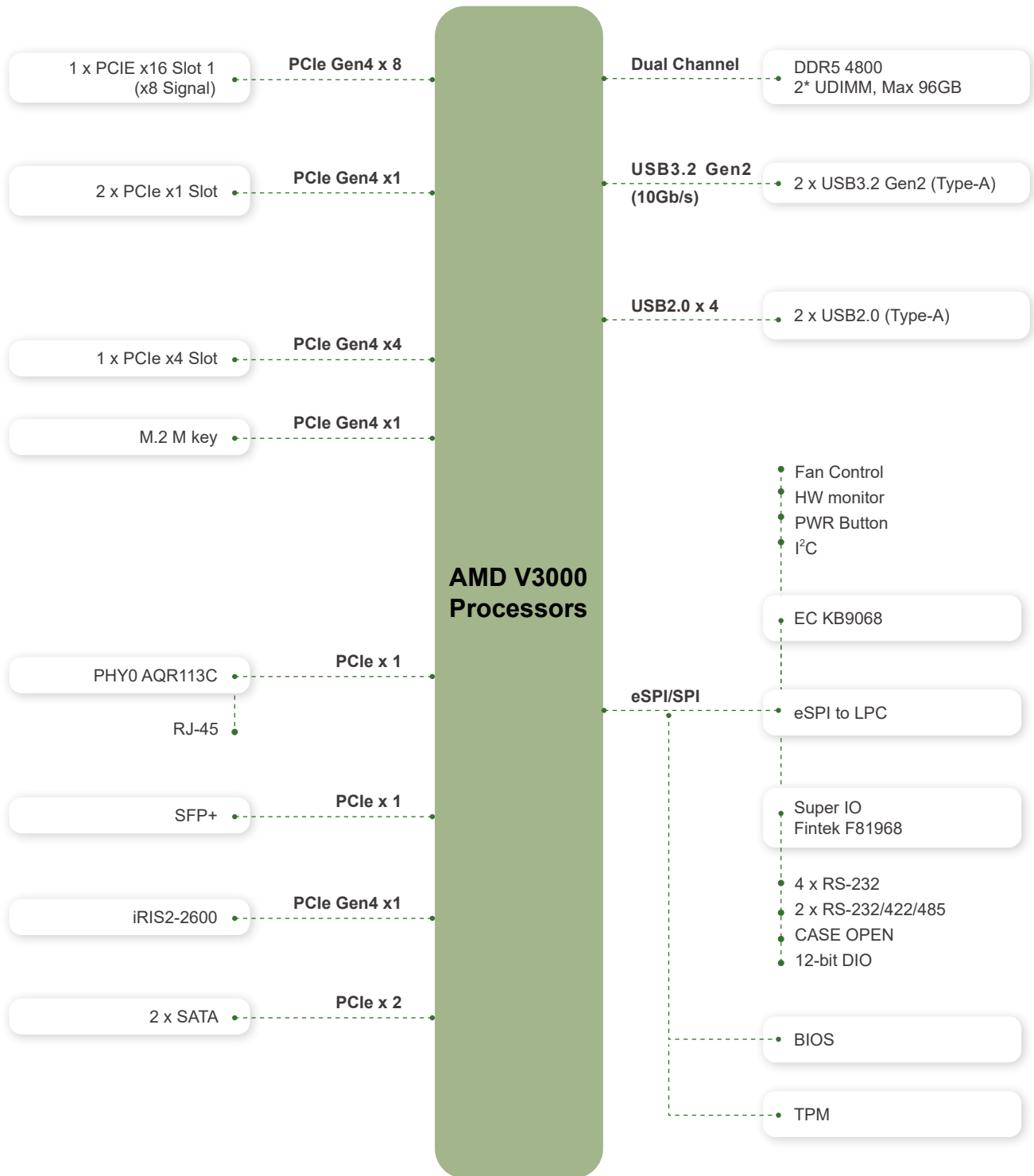


## Abundant USB and COM interfaces

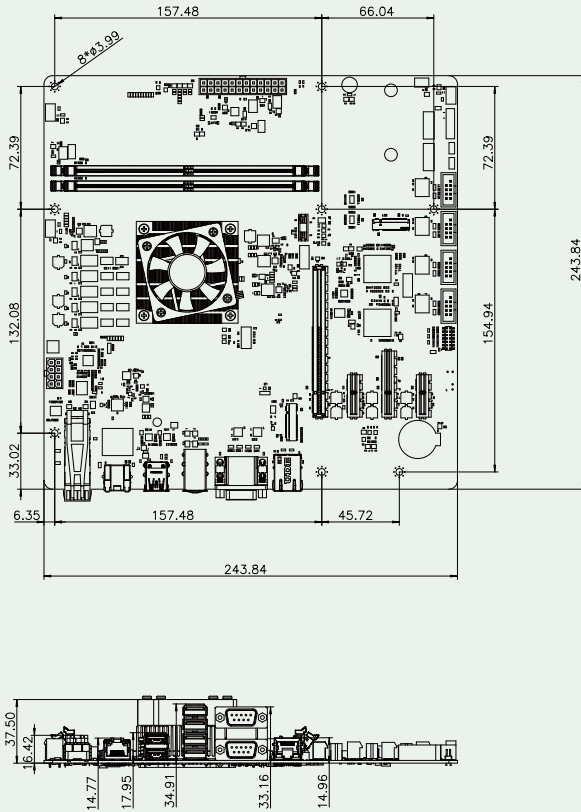
It is equipped with 2 USB 3.2 Gen2 (10Gb/s) ports, four USB 2.0 ports on the rear panel. Additionally, four RS-232 ports and two RS-232/422/485 are supported.



# Block Diagram



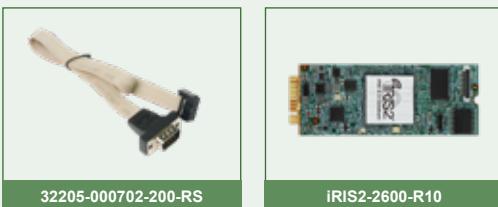
### Dimensions



### Specifications

Model	IMB-V3000
CPU	AMD V3000 Series Processors
BIOS	AMI UEFI BIOS
Memory	Two 288-pin 4800 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 96GB
Ethernet	1 x 10G SFI (SFP+) 1 x 10GBASE-T (RJ45)
Super I/O	Fintek 81966
Embedded Controller	ENE 9068
External I/O Interface	2 x USB 3.2 Gen2 (Type-A) (10Gb/s) 4 x USB 2.0 (Type-A) 2 x RS-232/422/485 (RS-485 support AFC) 1 x RJ45 for iRIS2-2600 (F830)
Internal I/O Interface	2 x SATA 6Gb/s (RAID 0/1 supported) 4 x RS-232 (2x5 pin, P=2.54)
SMBus	1 x SMBus (1x4 pin)
I2C	1 x I2C (1x4 pin)
Front Panel	1 x Front Panel (2 x 7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)
Expansion	1 x PCIe x16 (Slot1) with x8 Signal Gen4 1 x PCIe Gen4 x4 open-end 2 x PCIe Gen4 x1 1 x M.2 M Key (2242/2280, PCIe Gen4 x1 ) NVMe support 1 x M.2 B Key (2242/2280, PCIe Gen4 x1 ) NVMe support (IPMI)
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
TPM	1 x TPM2.0(2 x 10pin) onboard
FAN connector	1 x CPU fan connector (1x4 pin) 2 x System fan connector (1x 4 pin)
Chassis Open	1 x Chassis intrusion (1x2 pin)
Power supply	ATX/AT power supply Support AT/ATX mode ErP/EuP Compliant
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	3.3V@0.63A, 5V@6.25A, 12V@4.15A, 5VSB@0.32A (AMD embedded v3c48 processor with DDR5 4800MT/s U-DIMM 32GB memory, EuP mode enabled)
Operating Temperature	-10°C~60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Diemension	244mm x 244mm
OS	Only support Linux (Yocto Linux,Ubuntu 22.04.1 LTS)
Weight	GW: 1200g / NW: 700g

### Optional Accessories



### Packing List

1 x IMB-V3000 single board computer	2 x SATA cable
1 x I/O Shielding (45014-0108C0-00-HF)	1 x QIG

### Ordering Informaiton

IMB-V3000-C14-R10	micro-ATX motherboard supports AMD V3000 series V3C14 processor, DDR5, dual 10GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS
IMB-V3000-C48-R10	micro-ATX motherboard supports AMD V3000 seriesV3C48 processor, DDR5, dual 10GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

### Optional Accessories

32205-000702-200-RS	RS-232 cable, 230mm, P=2.54
iRIS2-2600-R10	IPMI 2.0 adapter card for iEi iRIS2 Connector IPMI 2.0 module