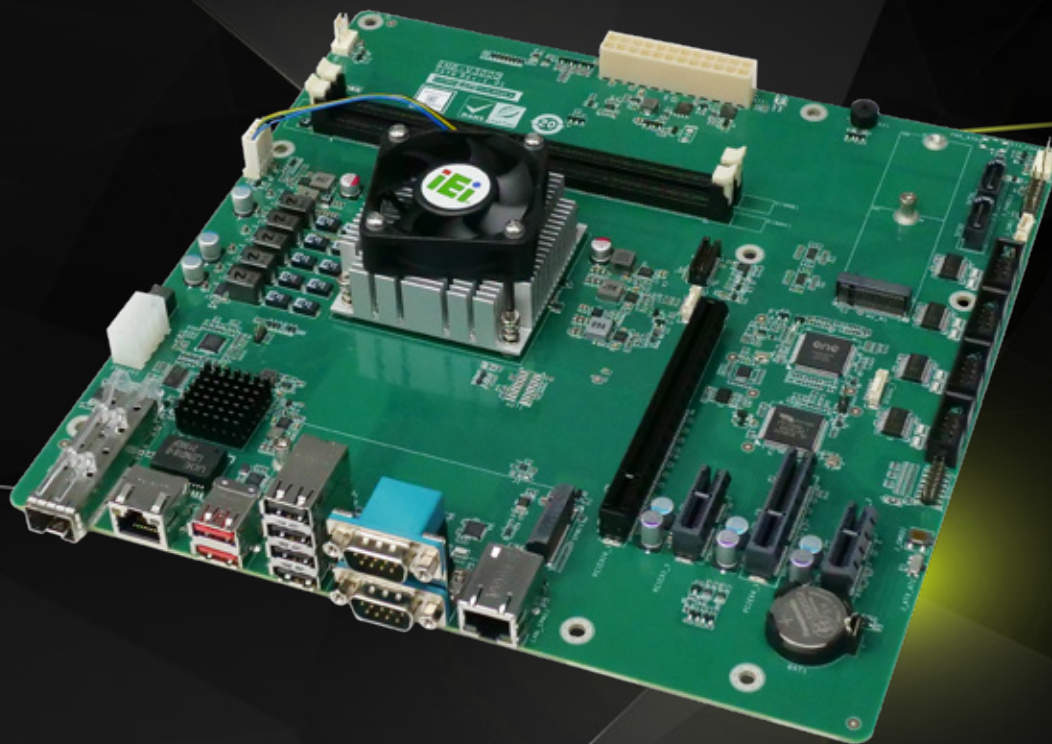


# IMB-V3000

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

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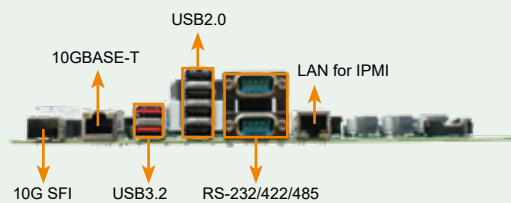
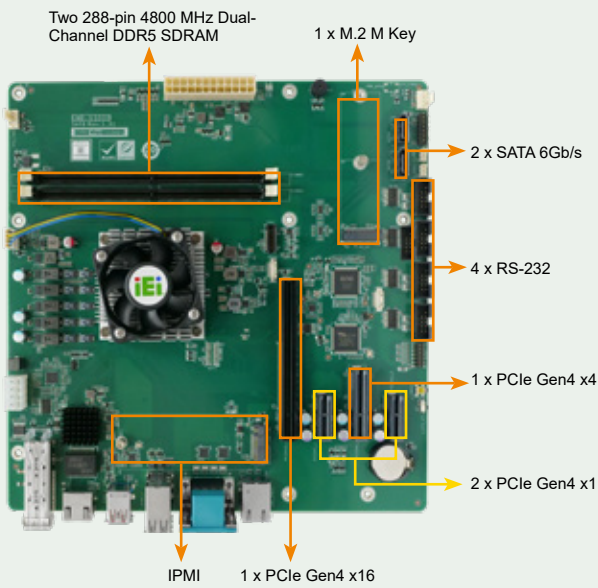
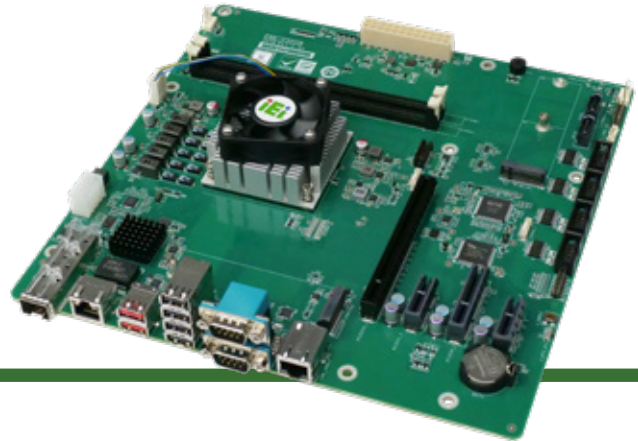
- AMD V3000 series processor
- Dual-channel DDR5 4800MHz
- Support M.2 M key for NVME storage
- High Performance Micro ATX motherboard with PCIe Gen4 expansion Slot



[www.ieiworld.com](http://www.ieiworld.com)

# IMB-V3000

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

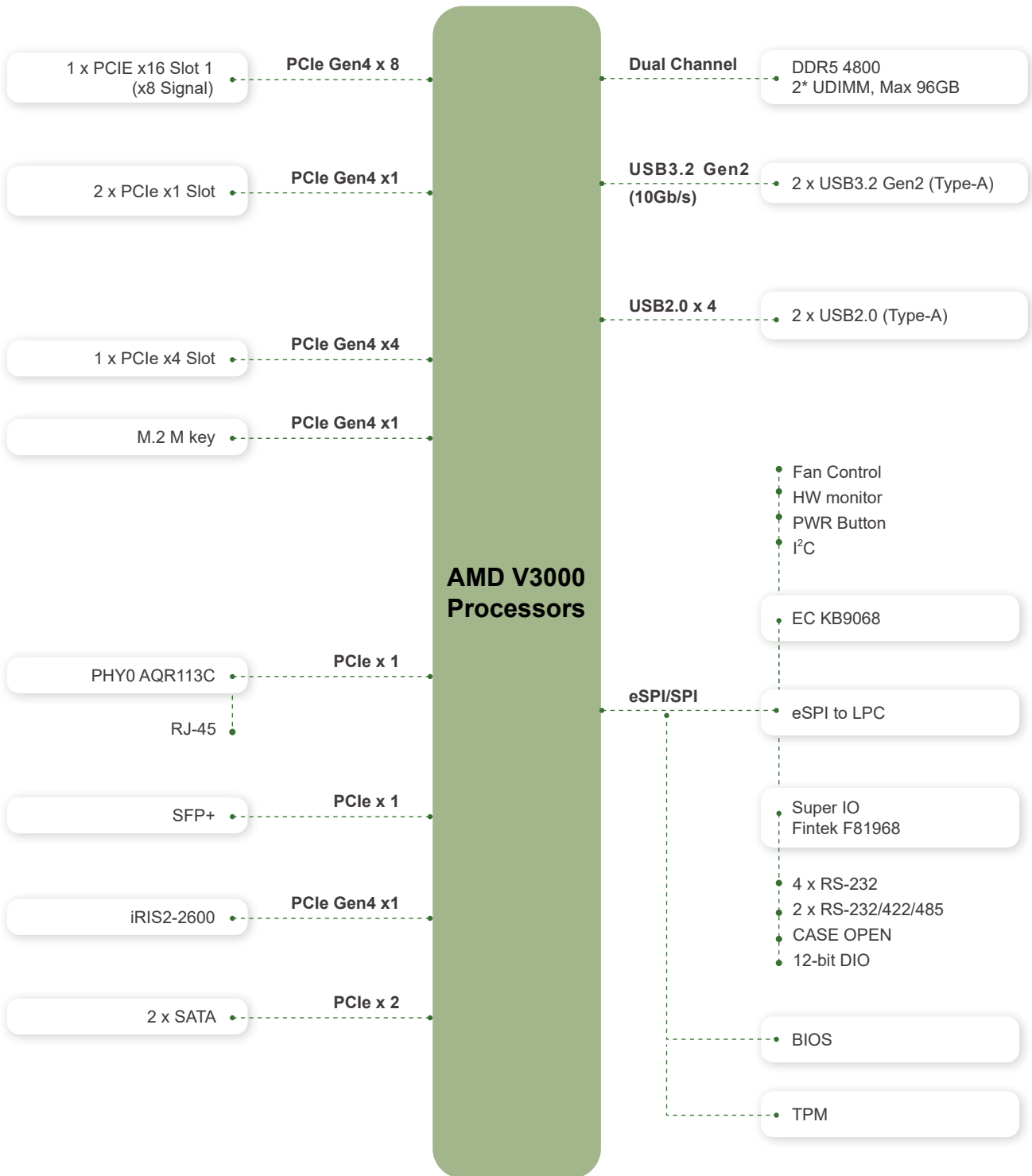


## Abundant USB and COM interfaces

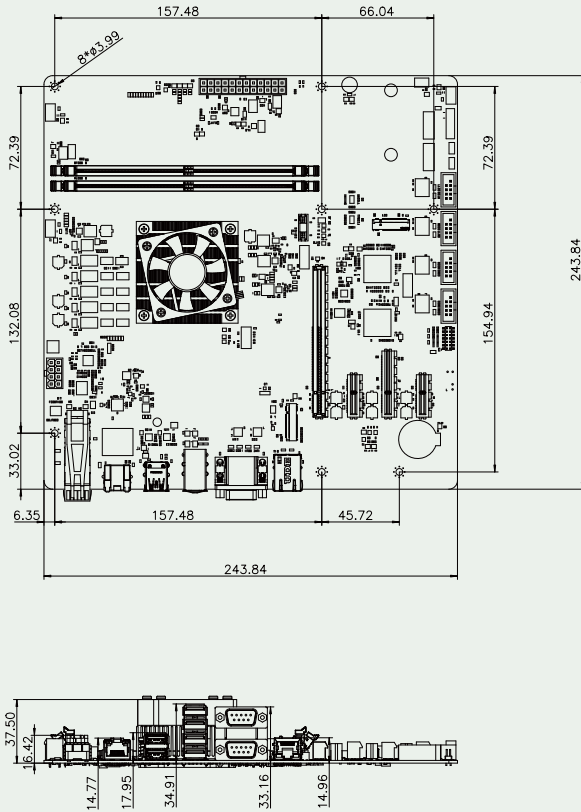
It is equipped with 2 USB 3.2 Gen2 (10Gb/s) ports, four USB 2.0 ports on the rear panel. Additionally, four RS-232 ports and two RS-232/422/485 are supported.



# Block Diagram



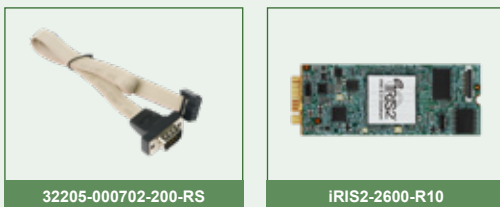
## Dimensions



## Specifications

| Model                  | IMB-V3000  |
|------------------------|--|
| CPU                    | AMD V3000 Series Processors  |
| BIOS                   | AMI UEFI BIOS  |
| Graphics Engine        | -  |
| Display Output         | -  |
| Memory                 | Two 288-pin 4800 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 96GB   |
| Ethernet               | 1 x 10G SFI (SFP+)<br>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)<br>4 x USB 2.0 (Type-A)<br>2 x RS-232/422/485 (RS-485 support AFC)<br>1 x RJ45 for iRIS2-2600 (F830)  |
| Internal I/O Interface | 2 x SATA 6Gb/s (RAID 0/1 supported)<br>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<br>(2 x 7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)  |
| Expansion              | 1 x PCIe x16 (Slot1) with x8 Signal Gen4<br>1 x PCIe Gen4 x4 open-end<br>2 x PCIe Gen4 x1<br>1 x M.2 M Key (2242/2280, PCIe Gen4 x1 ) NVMe support<br>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)<br>2 x System fan connector (1x 4 pin)   |
| Chassis Open           | 1 x Chassis intrusion (1x2 pin)  |
| Power supply           | ATX/AT power supply<br>Support AT/ATX mode<br>ErP/EuP Compliant  |
| Watchdog Timer         | Software Programmable support 1~255 sec. System reset  |
| Power Consumption      | 3.3V @ 0.63A, 5V @ 2.45A, 12V @ 4.15A, 5VSB @ 0.32A (AMD embedded v3c48 processor with DDR5 4800MT/s U-DIMM 32GB memory, EuP mode enabled)   |
| Operating Temperature  | 0°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, 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, 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 |