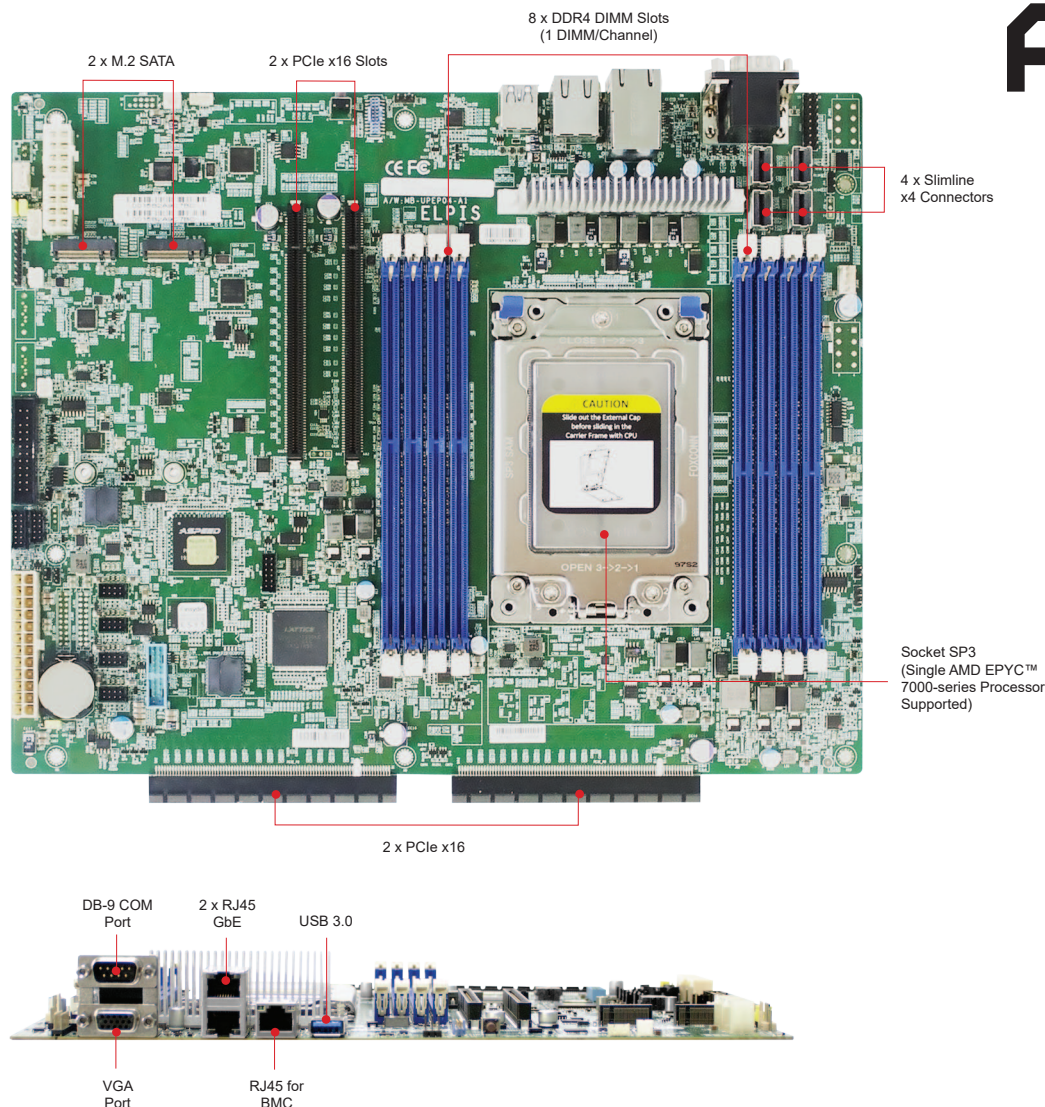




#### Dimensions

mm : 244 x 304.80  
inches : 9.6 x 12

The Elpis server board uniquely features the latest single AMD EPYC™ 7003/7002/7001 processor with up to 64 AMD Zen x86 cores and higher memory capacity of 8 slots up to 2TB. Based on AMD Zen microarchitecture, distinguished for 64 cores and 128 threads, AMD Security Root-of-Trust Technology for advanced data protection, and integrating a single processor socket for greater I/O extensions, the server board is genuinely dedicated to offer an ideal choice for pursuing greater bandwidth, reduced power consumption, and scalability in your server.

With the goal of optimization, this product seeks to achieve versatility, system expansion, and easy management. The server board implements PCIe Gen4 slots, PCIe Slimline connectors, SATA (support RAID 0/1) with support for various edge connectors, including COM, VGA, and USB 3.0 ports. Innovatively integrating BIOS Insyde/AMI and Aspeed AST2500 Advanced PCIe Graphics to the server board, Elpis profoundly delivers immediate and efficient control with Onboard Baseboard Management Controller for managing heavy workflow and executing complex operations.

#### Features

- Supports AMD EPYC™ 7003/7002/7001 processor
- Supports eight DDR4 DIMM slots up to 2TB memory capacity
- Supports two PCI Express Gen4/Gen3 x16 slots (Gen4 supported by EPYC™ 7003/7002 CPU)
- Supports four Slimline x4 with PCI Express Gen4/Gen3 (Gen4 supported by EPYC™ 7003/7002 CPU)
- Onboard dual GbE ports come from 2 x Intel® Ethernet Controller I210
- Onboard Baseboard Management Controller for system management and IPMI control
- Embedded components for 5+ year long life

## SPECIFICATIONS

|                  |                   |                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System           | Processor Support | Single AMD EPYC™ 7003/7002/7001 processor                                                                                                                                                                                                                                                                                                                                         |
|                  | CPU TDP           | 280W (support by EPYC™ 7003 CPU)                                                                                                                                                                                                                                                                                                                                                  |
|                  | Socket Type       | Socket SP3                                                                                                                                                                                                                                                                                                                                                                        |
|                  | System Memory     | <ul style="list-style-type: none"> <li>• DDR4 3200/2933MHz RDIMM/LRDIMM</li> <li>• Total 8 memory slots ; 8 channel</li> <li>• Supports up to 2TB (support by EPYC™ 7003/7002 CPU)</li> </ul>                                                                                                                                                                                     |
|                  | Expansion Slots   | <ul style="list-style-type: none"> <li>• 4 x Slimline x4 with PCI Express Gen4/Gen3 (Gen4 supported by EPYC™ 7003/7002 CPU)</li> <li>• 2 x PCI Express Gen4/Gen3 x16 slots (Gen4 supported by EPYC™ 7003/7002 CPU)</li> <li>• 2 x PCI Express Gen4/Gen3 x16 front edge conn. (Gen4 supported by EPYC™ 7003/7002 CPU)</li> <li>• 2 x NGFF(M.2) M Key(2280) support SATA</li> </ul> |
| System BIOS      | BIOS Type         | <ul style="list-style-type: none"> <li>• For EPYC™ 7002/7001 – Insyde UEFI BIOS</li> <li>• For EPYC™ 7003 – AMI UEFI BIOS</li> </ul>                                                                                                                                                                                                                                              |
|                  | BIOS Features     | <ul style="list-style-type: none"> <li>• ACPI</li> <li>• PXE</li> <li>• IPMI KCS interface</li> <li>• SMBIOS</li> <li>• Serial console redirection</li> <li>• PCIe Hotplug</li> <li>• SRIOV</li> <li>• iSCSI</li> <li>• TPM</li> </ul>                                                                                                                                            |
| On-board Devices | SATA              | AMD CPU Integrated I/O<br>• 2 x M.2 SATA 6.0 Gb/s support RAID 0/1 (by ASMedia ASM1061R)                                                                                                                                                                                                                                                                                          |
|                  | BMC               | Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor<br>• Baseboard Management Controller<br>• Intelligent Platform Interface 2.0 (IPMI 2.0)<br>• iKVM, Media Redirection, IPMI over LAN, Serial over LAN<br>• HTML5<br>• Redfish<br>• SMASH Support                                                                                                               |

|                  |                    |                                                                                                                                                                                                               |
|------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On-board Devices | Network Controller | <ul style="list-style-type: none"> <li>• 2 x Intel I210 Ethernet Controller support dual ports 1GbE with RJ45 connectors on rear I/O</li> <li>• Realtek RTL8211E for BMC dedicated management port</li> </ul> |
|                  | Graphics           | Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor<br>• PCIe VGA/2D Controller<br>• 1920x1200@60Hz 32bpp                                                                                     |
| Input/Output     | SATA               | AMD CPU Integrated I/O<br>• 2 x M.2 SATA 6.0 Gb/s support RAID 0/1 (by ASMedia ASM1061R)                                                                                                                      |
|                  | LAN                | <ul style="list-style-type: none"> <li>• 2 x GbE RJ45, and one within BMC shared management</li> <li>• 1 x GbE RJ45 dedicated to BMC management</li> </ul>                                                    |
|                  | USB                | <ul style="list-style-type: none"> <li>• 1 x USB 3.0 Type A connectors on rear I/O</li> <li>• 2 x USB 3.0 by onboard by pin header</li> </ul>                                                                 |
|                  | VGA                | <ul style="list-style-type: none"> <li>• 1 x external VGA port</li> <li>• 1 x internal VGA pin-header (share with external VGA port)</li> </ul>                                                               |
|                  | Serial Port        | <ul style="list-style-type: none"> <li>• 1 x DB-9 for COM port</li> <li>• 1 x internal COM pin-header</li> <li>• 1 x internal LCM (UART type) pin-header</li> </ul>                                           |
|                  | Others             | 1 x TPM 2.0 onboard                                                                                                                                                                                           |