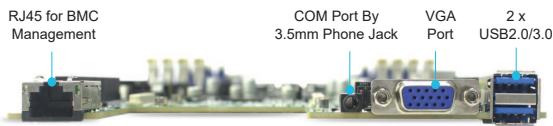


## I/O View



## Dimensions

mm : 431.8 x 157.4 / inches : 17 x 6.196

The Auriga server board offers the latest AMD EPYC™ SoC technology which can support the highest core count in an x86-architecture with EPYC™ 7003/7002/7001 processor, more main memory capacity and bandwidth with greater efficiency and greatest I/O density.

Auriga has I/O bandwidth that matches the capability of the CPU cores to move data to and from the network, spinning disks, NVMe storage, and graphics acceleration devices. By offering the parallelism to speed high performance computing environments, machine learning and predictive analysis benefit from the capability to process more data in memory and to accelerate computation with more direct GPU connectivity.

## Features

- Supports AMD EPYC™ 7003/7002/7001 processor based on the AMD "Zen" microarchitecture for highest server performance
- Supports eight DDR4 DIMM slots for maximum memory performance
- Supports one OCP Mezzanine V2.0 up to PCI Express Gen4/Gen3 x16 extension (Gen4 supported by EPYC™ 7003/7002 CPU)
- Supports two PCI Express Gen4/Gen3 x16 slots (Gen4 supported by EPYC™ 7003/7002 CPU)
- Supports four slimline x12 + seven slimline x4 connectors, total 76 PCI Express Gen4/Gen3 lanes (Gen4 supported by EPYC™ 7003/7002 CPU)
- Onboard Baseboard Management Controller for system management and IPMI control
- Embedded components for 5+ year long life
- Rackmount Technology Extension (RTX) form factor utilizes full internal chassis volume for optimum I/O configurations

## 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	System Memory	<ul style="list-style-type: none"> <li>• DDR4 3200/2933/2666MHz RDIMM/LRDIMM</li> <li>• Total 8 memory slots ; 8 channels</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 x12 + 7 x Slimline x4</li> <li>• 2 x PCI Express Gen4/Gen3 x16 slots (Gen4 supported by EPYC™ 7003/7002 CPU)</li> <li>• 1 x OCP Mezzanine V2.0 supports PCI Express Gen4/Gen3 x16 (Gen4 supported by EPYC™ 7003/7002 CPU)</li> <li>• Total support 124 lanes of PCI Express Gen4/Gen3 (Gen4 supported by EPYC™ 7003/7002 CPU)</li> <li>• 2 x NGFF(M.2) M-Key(2242/2260/2280/22110) support SATA/PCIe x1</li> </ul>
System BIOS	BIOS Type	EPYC 7003/7002/7001 – UEFI BIOS
	BIOS Features	<ul style="list-style-type: none"> <li>• ACPI</li> <li>• PXE</li> <li>• IPMI KCS interface</li> <li>• SMBIOS</li> <li>• SRIOV</li> <li>• Serial console redirection</li> <li>• iSCSI</li> <li>• TPM</li> <li>• PCIe Hotplug</li> </ul>
On-board Devices	SATA/NVMe	<ul style="list-style-type: none"> <li>• 2 x SATA 6.0 Gb/s</li> <li>• 2 x SATA 6.0 Gb/s by M.2 (M-key) support up to 22110 (optional - above 4 SATA ports can be replaced with 2 x PCIe x1 M.2)</li> </ul>

On-board Devices	BMC	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor <ul style="list-style-type: none"> <li>• Baseboard Management Controller</li> <li>• Intelligent Platform Interface 2.0 (IPMI 2.0)</li> <li>• iKVM, Media Redirection, IPMI over LAN, Serial over LAN</li> <li>• HTML5</li> <li>• Redfish</li> <li>• SMASH Support</li> </ul>
	Graphics	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor <ul style="list-style-type: none"> <li>• PCIe VGA/2D Controller</li> <li>• 1920x1200@60Hz 32bpp</li> </ul>
Input/Output	SATA/NVMe	<ul style="list-style-type: none"> <li>• 2 x SATA 6.0 Gb/s</li> <li>• 2 x SATA 6.0 Gb/s by M.2 (M-key) supports up to 22110 (optional - above 4 SATA ports can be replaced with 2 x PCIe x1 M.2)</li> </ul>
	LAN	<ul style="list-style-type: none"> <li>• 1 x GbE RJ45 dedicated to BMC management</li> </ul>
	USB	<ul style="list-style-type: none"> <li>• 2 x USB2.0/3.0 Type A connectors on rear I/O</li> <li>• 2 x USB2.0/3.0 by onboard vertical Type A connectors</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 external COM port by 3.5mm phone jack</li> <li>• 1 x internal COM pin-header</li> </ul>
	Others	<ul style="list-style-type: none"> <li>• 1 x TPM 2.0 onboard</li> </ul>