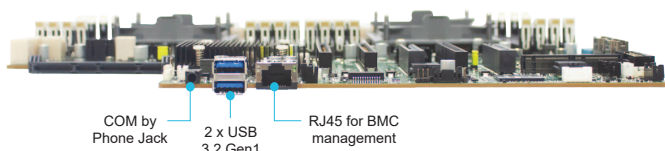


### I/O View



### Dimensions

mm : 304.8 x 330.2 / inches : 12 x 13

The Tucana server board offers the latest Xeon® Scalable Processors technology solutions with compelling performance and provides premium power efficiency, which is optimized for efficient performance platforms (storage, security and communications infrastructure)

By implementing Intel® Xeon® Scalable Processors, fully integrated microarchitecture supports up to 3 x 16 lanes, 2 x 8 lanes, 4 x slimline x8 of PCIe Gen4 and one OCP 3.0 PCIe Gen4, providing eight channels per CPU with total sixteen DIMM slots deployment which can support up to DDR4 3200/2933MHz, Tucana server board can meet both cost efficiency and performance requirement for lots of applications.

Featured with ground breaking technologies including Intel® Next Generation Microarchitecture and Instruction Set (AVX-512, VMD), Speed Shift Technology, UPI link speeds up to 11.2GT/s, the Tucana server board enable next generation server solutions with an incredible leap in performance.

### Features

- Supports 3rd Gen Intel® Xeon® Scalable Processors for highest server performance and improved power efficiency
- Supports 16 DDR4 DIMM slots for maximum memory performance
- Supports up to 3 x 16 lanes, 2 x 8 lanes, 4 x slimline x8, 1 x OCP 3.0 of PCIe Gen4
- 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	3rd Gen Intel® Xeon® Scalable Processors (Ice lake CPU)
	CPU TDP	270W
	UPI Speeds	10.4 / 11.2 GT/s
	Socket Type	Socket P+ (LGA-4189)
	System Memory	<ul style="list-style-type: none"> <li>• 8 x memory channels per CPU(1DPC)</li> <li>• 16 x DIMM slots support: <ul style="list-style-type: none"> <li>DDR4 3200/2933MHz RDIMM/LRDIMM</li> <li>- up to 512GB RDIMM SRx4 (16Gb)</li> <li>- up to 1024GB RDIMM DRx4 (16Gb)</li> <li>- up to 4096GB RDIMM 3DS 8Rx4 (16Gb)</li> <li>- up to 2048GB LRDIMM QRx4 (16Gb)</li> <li>- up to 4096GB LRDIMM 3DS 8Rx4 (16Gb)</li> </ul> </li> <li>• Intel® Optane™ DC Persistent Memory (Barlow Pass) support</li> </ul>
System BIOS	Expansion Slots	<ul style="list-style-type: none"> <li>• CPU0: 2 x PCIe Gen4 x16 slots + 1 x OCP V3.0 + 1 x slimline x8</li> <li>• CPU1: 1 x PCIe Gen4 x16 slot 2 x PCIe Gen4 x8 3 x slimline x8</li> </ul>
	BIOS Type	AMI UEFI BIOS
System BIOS	BIOS Features	<ul style="list-style-type: none"> <li>• ACPI</li> <li>• PXE</li> <li>• AC loss recovery</li> <li>• IPMI KCS interface</li> <li>• SMBIOS</li> <li>• Serial console redirection</li> <li>• SRIOV</li> <li>• TPM</li> <li>• PCIe Hotplug</li> </ul>
	SATA	Lewisburg PCH on-chip solution supports 12 x SATA 6.0 Gb/s • 2 x SATA 7pin • 8 x SATA by Slimline + 2 x SATA by M.2 (supports both SATA/PCIe by PCH HSIO)
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>• SMASH Support</li> <li>• HTML5</li> <li>• Redfish</li> </ul>

On-board Devices	Network Controller	<ul style="list-style-type: none"> <li>• Realtek RTL8211E GbE for BMC dedicated management port (NCSI shared NIC - reserved for OCP &amp; I210 by jumper setting)</li> <li>• Intel I210 GbE for BMC shared NIC management port by onboard connector (NCSI shared NIC - reserved for OCP V3.0)</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	Lewisburg PCH on-chip solution supports 12 x SATA 6.0 Gb/s • 2 x SATA 7pin • 8 x SATA by Slimline + 2 x SATA by M.2 (supports both SATA/PCIe by PCH HSIO)
	LAN	• 1 x GbE RJ45 dedicated to BMC management
	USB	<ul style="list-style-type: none"> <li>• 2 x USB 3.0 double-stake Type A connectors</li> <li>• 2 x USB pin headers support USB3.0/2.0</li> </ul>
	VGA	• 1 x internal VGA pin-header
	Serial Port	<ul style="list-style-type: none"> <li>• 1 x external COM port</li> <li>• 1 x COM2 box header</li> <li>• 1 x COM1 box header share with rear I/O phone jack</li> </ul>
	Others	• 1 x TPM 2.0 onboard