



Front View

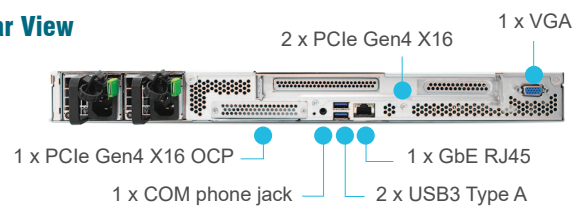
10 x 2.5" hot swap drive bays



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 2 x16 lanes, 4 slimline x8, 1 OCP 3.0 of PCIe Gen4 expansions
- Onboard Baseboard Management Controller for system management and IPMI control
- Embedded components for 5+ year long life

Rear View

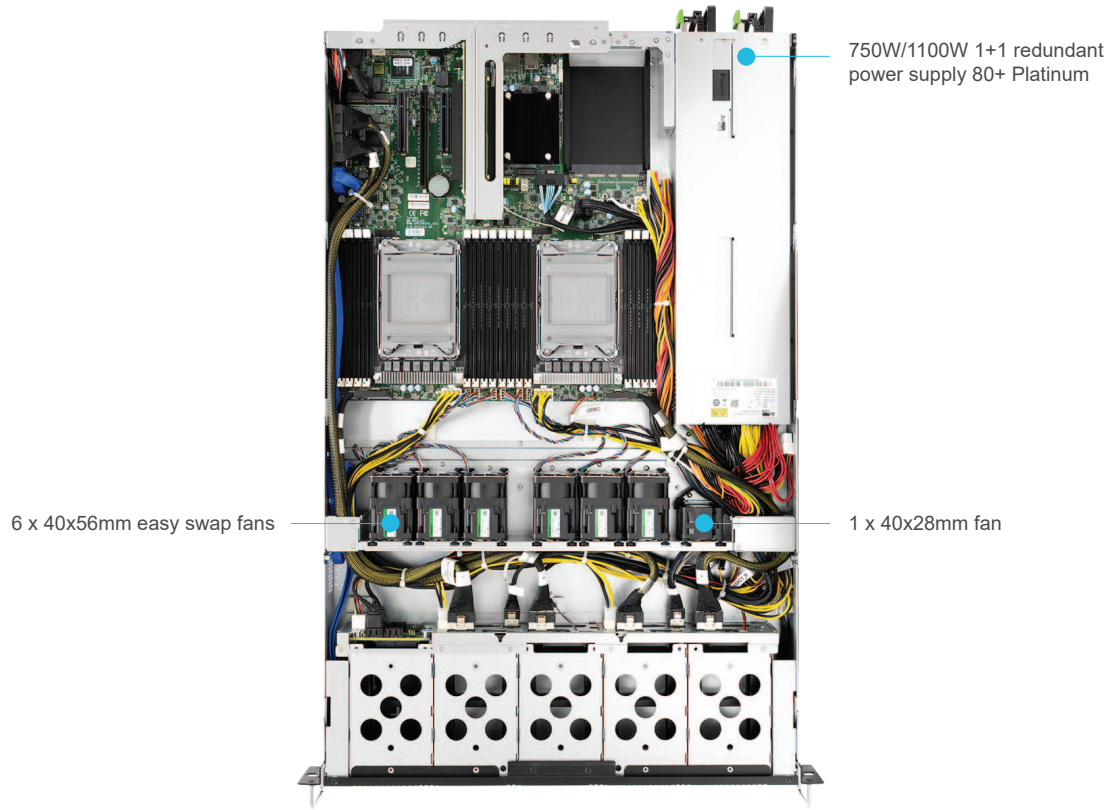


Specifications

Dimensions (W x D x H)	mm : 438 x 678.7 x 43.5	
	inches : 17.2 x 26.7 x 1.7	
Motherboard	AIC Server Board Tucana	
Processor	Processor Support	3rd Gen Intel® Xeon® Scalable Processors (Ice Lake) <i>*Please contact AIC Technical Support for more info/details about optimized CPUs and specialized system.</i>
	UPI Speeds	10.4 / 11.2 GT/s
	Socket Type	Socket P+ (LGA-4189)
Chipset Support	Intel® C621A Chipset	
System Memory	• 8 x memory channels per CPU (1DPC) • 16 x DIMM slots support: - DDR4 3200/2933MHz RDIMM/LRDIMM - up to 512GB RDIMM SRx4 (16Gb) - up to 1024GB RDIMM DRx4 (16Gb) - up to 4096GB RDIMM 3DS 8Rx4 (16Gb) - up to 2048GB LRDIMM QRx4 (16Gb) - up to 4096GB LRDIMM 3DS 8Rx4 (16Gb) • Intel® Optane™ DC Persistent Memory (Barlow Pass) support	
Front Panel	• System power on/off • System reset • 2 x USB 3.0 Type A	
LEDs	• Power status • HDD activity • LAN activity • Warning	
Drive Bays	External	2.5" hot swap 2 x (6G SATA/PCIe Gen4 NVMe) + 8 x (6G SATA/12G SAS*/PCIe Gen4 NVMe) <i>*Additional SAS HBA/RAID card required to support. Supported drives will be different according to the four backplane options.</i>
	Internal	M.2 2 x M.2(NGFF)/M-Key/2280

Expansion Slots	PCIe 4.0	CPU0: 2 x PCIe Gen4 X16 slots + 1 x OCP V3.0
System BIOS	BIOS Type	AMI UEFI BIOS
	BIOS Features	• ACPI • PXE • AC loss recovery • IPMI KCS interface • SMBIOS • Serial console redirection • SRIOV • TPM • PCIe Hotplug
On-board Devices	SATA	Lewisburg-R PCH on-chip solution supports 10 x SATA 6.0 Gb/s • 2 x SATA 7pin • 8 x SATA by slimline (supports both SATA/PCIe by PCH HSIO)
	Network Controllers	• Realtek RTL8211E GbE for BMC dedicated management port (NCSI shared NIC - reserved for OCP & I210 by jumper setting) • Intel I210 GbE for BMC shared NIC management port by onboard connector (NCSI shared NIC - reserved for OCP V3.0)
	Graphics	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor • PCIe VGA/2D Controller • 1920x1200@60Hz 32bpp

Top View



(Power supply and Server board are included.)

SB102-TU

Rear I/O	LAN	1 x GbE RJ45 dedicated to BMC management
	USB	2 x USB 3.0 double-stack Type A connectors
	VGA	1 x VGA DB15
	Serial Port	1 x external COM port phone jack
TPM Support	2.0 onboard	
Power Supply	750W/1100W 1+1 redundant power supply 80+ Platinum	
System Cooling	• 6 x 40x56mm easy swap fans • 1 x 40x28mm fan	

System Management	• IPMI : Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor • Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH Support	
Environmental Specifications	• Storage temperature: -10°C(14°F) ~ 60°C(140°F) • Operating temperature: 0°C(32°F) ~ 35°C(95°F) • Storage operating humidity: 5%~95% non-condensing	
Gross Weight	(w/ PSU & Rail)	kgs : 20
		lbs : 44
Packaging Dimensions	(W x D x H)	mm : 615 x 1025 x 274
		inches : 24 x 40 x 10.8
Mounting	Standard	28" tool-less slide rail