SB101-A6 Storage Server Barebone

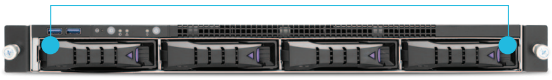


Features

- 1U general purpose storage server supports 4 hot swap 3.5"/2.5" universal SATA/SAS/NVMe U.2 drive bays
- Supports 3rd Gen. Intel® Xeon® Scalable processors (codename Ice Lake)
- Onboard Baseboard Management Controller for system management and IPMI control
- Front-to-back airflow and hot swap redundant fans to provide optimal thermal conditions
- Dedicated BMC management port

Front View

4 x 3.5" hot swap drive bays



Rear View

1 x GbE RJ45

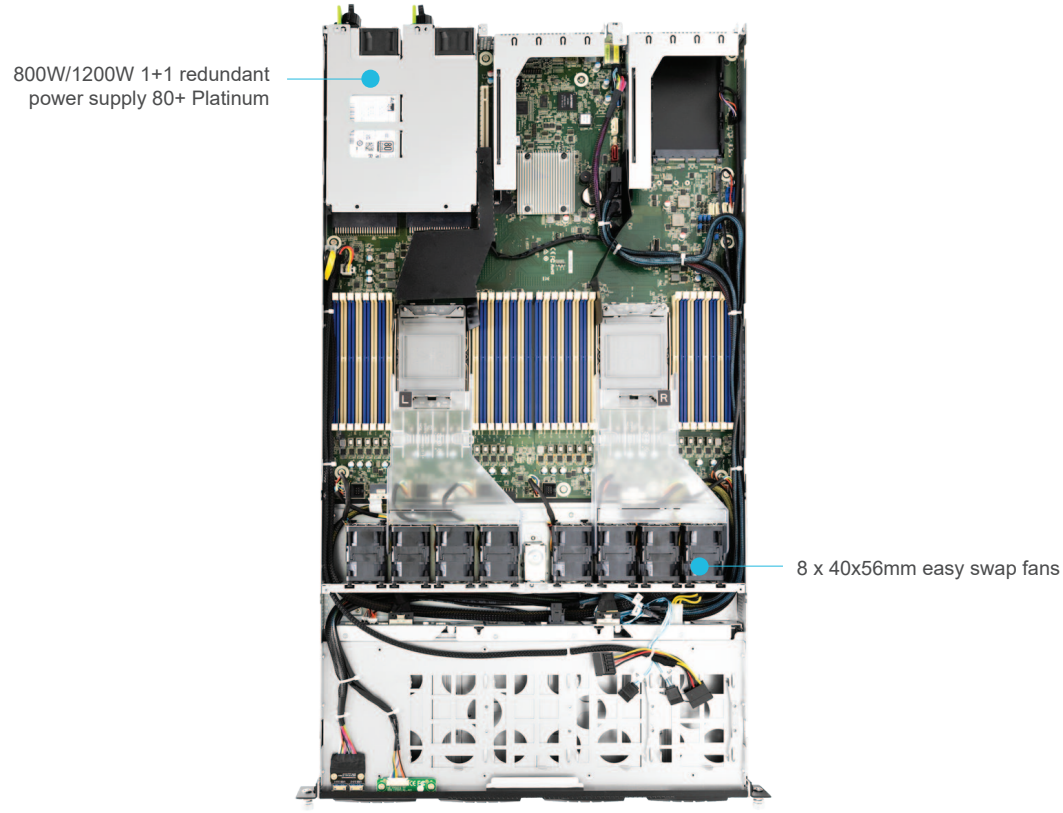


Specifications

Dimensions (W x D x H)	mm : 438 x 800 x 43.5		
	inches : 17.2 x 31.5 x 1.7		
Motherboard	AIC Server Board		
Processor	Processor Support	• 3rd Gen Intel® Xeon® Scalable Processors (Ice Lake) • Supports CPU TDP up to 270W* **Please contact AIC Technical Support for more info/details about optimized CPUs and specialized system.*	
	UPI Speeds	10.4 GT/s, 9.6 GT/s	
	Socket Type	Socket P0 (LGA-4189 Socket)	
Chipset Support	Intel® C621A series PCH		
System Memory	• DDR4 3200/2933/2666/2400 (1DPC/2DPC) MHz • Total 16+16 DIMM slots (2DPC) • Up to 12TB 3DS ECC RDIMM/LRDIMM • Intel® Optane™ Persistent Memory 200 Series support		
Front Panel	• System power on/off • System reset • 2 x USB 3.2 Gen1 Type A • System ID		
LEDs	• Power status • System alert • System ID		
Drive Bays	External	3.5"/2.5" hot swap	4 (SAS/SATA/NVMe)
	Internal	2.5" OS	2 (SATA)
		M.2	1 x M.2(NGFF)/M-Key/2280 (SATA/PCIe)
Backplane	1 x 4-port SATA/SAS/NVMe backplane with 1 x SFF-8643 + 2 x SFF-8654 (Slimline 8i) connectors		
Expansion Slots	PCIe 4.0	• 2 x16 FHHL • 1 x16 OCP 3.0	

Riser Card (included)	RC-PE1U02-Z2	1 x16 PCIe slot
System BIOS	BIOS Type	AMI UEFI BIOS
	BIOS Features	• ACPI • PXE • AC loss recovery • IPMI KCS interface • SMBIOS • Serial console redirection • BIOS boot specification • BIOS recovery mode
On-board Devices	SATA	Intel® C621A PCH on-chip solution • 14 x SATA 6.0 Gb/s (3 Mini-SAS HD, SATA DOM, SATA DOM or M.2) • RAID 0, 1, 5, 10 support by Intel RSTe
	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 • HTML5 • Redfish
	Network Controllers	Networking options provided via OCP Mezzanine extension
	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.)

Rear I/O	LAN	1 x GbE RJ45 dedicated to BMC management
	USB	2 x USB 3.0 Type A in double-stack connector
	Video Output	1 x external DB-15 VGA port
	Serial Port	1 x RS-232 connector
Power Supply	800W/1200W 1+1 redundant power supply 80+ Platinum • AC INPUT : 100~240V,50/60Hz,7-3.5A	
System Cooling	8 x 40x56mm easy swap fans	
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 1135 x 273
		inches : 24.2 x 44.7 x 10.7
Mounting	Standard	28" tool-less slide rail

Ordering Information

SKU Number	Description
XP1-S101A601	1U 4x 3.5"/2.5" tri-mode hot-swap, 2x 2.5" 9mm SATA internal, 8x 4056 fan, Acbel 800W redundant power supply Platinum, A6 motherboard, DDR4 RDIMM x32, Intel PCH C621A, WATX, dedicated 1GbE BMC, AST2500, 2x PCIe x16 Gen4, 1x OCP 3.0 x16 Gen4, 2x CPU heatsink (195W), 28" slide rail, w/o bezel
XP1-S101A602	1U 4x 3.5"/2.5" tri-mode hot-swap, 2x 2.5" 9mm SATA internal, 8x 4056 fan, Acbel 1200W redundant power supply Platinum, A6 motherboard, DDR4 RDIMM x32, Intel PCH C621A, WATX, dedicated 1GbE BMC, AST2500, 2x PCIe x16 Gen4, 1x OCP 3.0 x16 Gen4, 2x CPU heatsink (270W), 28" slide rail, w/o bezel

Remark: All specifications and photos are subject to change without notice. © 2024 AIC Inc. All rights reserved.