



Front View



2 x 3.5" hot swap drive bays

Features

- 1U single GPU/FPGA server supports 2x 2.5" hot swappable SATA/NVMe drive bays
- Supports two 2nd Generation Intel® Xeon® Scalable processor product family
- Three PCIe Gen3 X16 expansion slots for add-in cards
- With Intel® C621 Series Chipset to provide 5+ years product life cycle
- Onboard Baseboard Management Controller for system management and IPMI control
- Front-to-back airflow and easy swap fans to provide optimal thermal conditions
- Compact system size to fit short 800mm depth cabinet

Rear View



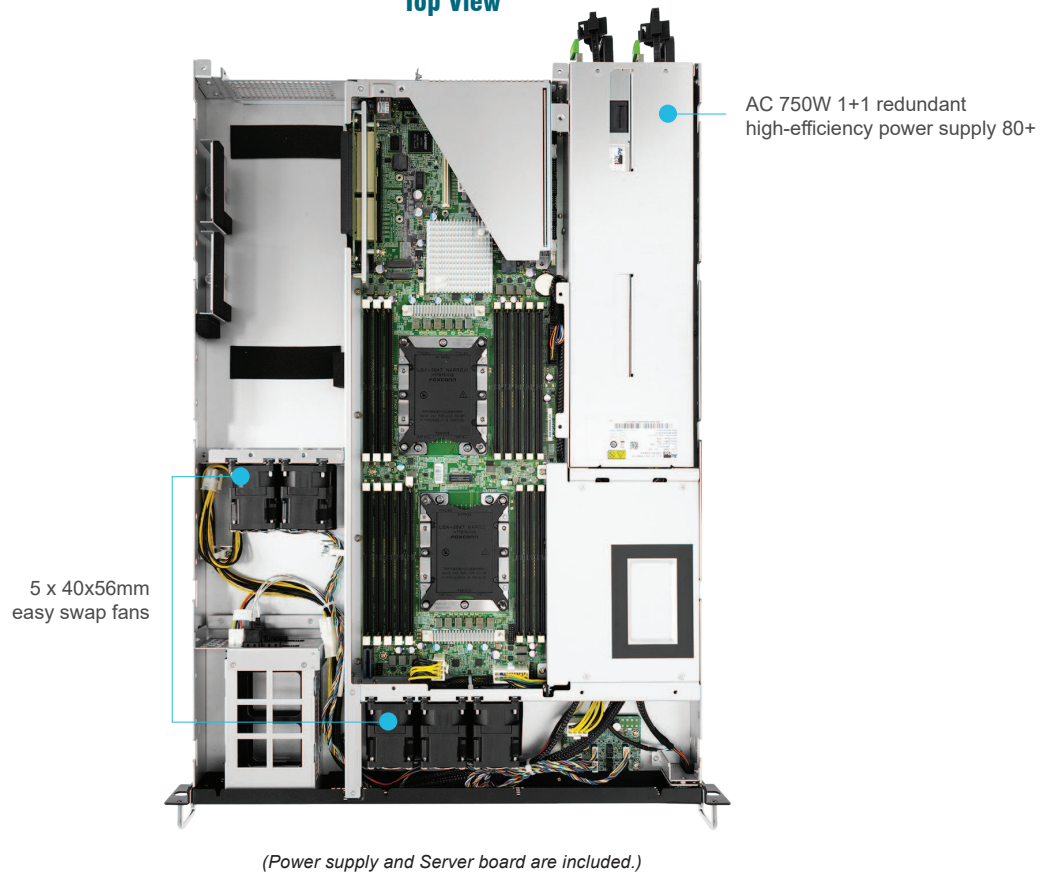
RJ45 for BMC management

Specifications

Dimensions (W x D x H)	mm : 438 x 650 x 44.4		
	inches : 17.2 x 26.5 x 1.75		
Motherboard	AIC Server Board Vela		
Processor	Processor Support	• 2nd Generation Intel® Xeon® Scalable Processor product family (Cascade Lake Refresh/Cascade Lake/Skylake) • Support CPU TDP up to 165W <i>*Please contact AIC Technical Support for more info/details about optimized CPUs and specialized system.</i>	
	QPI Speeds	10.4 GT/s, 9.6 GT/s	
	Socket Type	Socket P0 (LGA-3647 Socket)	
Chipset Support	Intel® Lewisburg C620 PCH		
System Memory	• 6 x memory channels per CPU 2 channels with 2DPC + 4 channels with 1DPC • 16 x DIMM slots support: DDR4 2933/2666/2400MHz RDIMM/LRDIMM • Intel® Optane™ DC Persistent Memory (Apache Pass) support		
Front Panel	• System power on/off • System ID • System reset • USB 2.0 Type A connector		
LEDs	• Power • System ID • Alert - Power (Secondary) - Warning		
Drive Bays	External	2.5" hot swap	2
	Internal	M.2	2 x M.2(NVMe)/M-Key/2280
Backplanes	1 x 2 port 6Gb SAS/SATA (Option NVMe)		

Expansion Slots	PCIe 3.0	<ul style="list-style-type: none"> • 1 x OCP 2.0 • 1 x FHFL, PCIe X16 • 1 x FHHL, PCIe X16
System BIOS	BIOS Type	• Insyde UEFI BIOS
	BIOS Features	<ul style="list-style-type: none"> • ACPI • PXE • WOL • AC loss recovery • IPMI 2.0 KCS interface • SMBIOS • Serial console redirection • BIOS Boot Specification • BIOS Recovery Mode • SRIOV • iSCSI • TPM
On-board Devices	SATA	<ul style="list-style-type: none"> Intel® Lewisburg PCH on-chip solution • 2 x SATA 6.0 Gb/s (by 2 x SATA 7 pin) • 8 x SATA 6.0 Gb/s by edge slot for extension • RAID 0,1,5,10 support by Intel® RSTe
	Network Controllers	<ul style="list-style-type: none"> • Via OCP Mezzanine card/PCIe slots extension • Realtek RTL8211E GbE Ethernet for BMC dedicated management port
	Graphics	<ul style="list-style-type: none"> Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor • PCIe VGA/2D Controller • 1920x1200@60Hz 32bpp

Top View



CB121-VL

Rear I/O	LAN	1 x RJ45 dedicated to BMC management
	USB	2 x USB 3.0
	VGA	1 x external DB-15 VGA port
	Serial Port	1 x external COM port by 3.5mm phone jack
Power Supply	AC 750W 1+1 redundant high-efficiency power supply 80+ • 90~264VAC, 47~63 Hz	
System Cooling	5 x 40x56mm easy swap fans	
System Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Media redirection • Temperature, fan, voltage, PSU sensor monitor • System temperature • System ID/ System fail indicator • Remote power on/off/reset • SEL message alarm through mail • SNMP support • Intel NM 	

Environmental Specifications	<ul style="list-style-type: none"> • 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, Pallet)	22 48
Packaging Dimensions	(W x D x H)	mm : 615 x 980 x 274 inches : 24.2 x 38.6 x 10.8
Mounting	Standard	30" tool-less slide rail

Ordering Information

SKU Number	Description
XP1-C121VL01	1U single GPU/FPGA server supports 2 hot-swap 2.5" SATA drive bays
XP1-C121VL02	1U single GPU/FPGA server supports 2 hot-swap 2.5" NVMe drive bays