



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 Gen 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

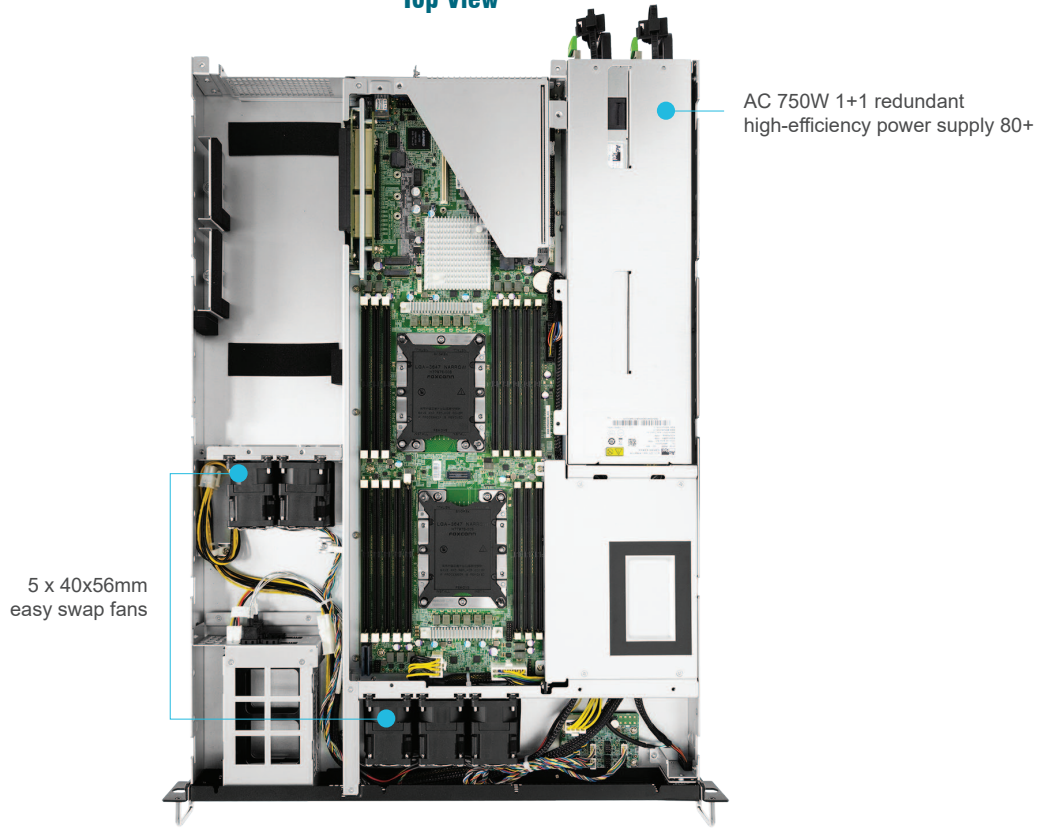
Specifications

| | | | |
|----------------------------------|---|--|--------------------------|
| 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 | <ul style="list-style-type: none"> • 2nd Gen 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • System power on/off • System ID • System reset • USB 2.0 Type A connector | | |
| LEDs | <ul style="list-style-type: none"> • Power • System ID • Alert - Power (Secondary) - Warning | | |
| Drive Bays | External | 2.5" hot swap | 2 |
| | Internal | M.2 | 2 x M.2(NVFF)/M-Key/2280 |
| Backplanes | 1 x 2 port 6Gb SAS/SATA (Option NVMe) | | |

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| 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 |
| | BIOS Type | • Insyde UEFI BIOS |
| System 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 |
| | 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 |
| On-board Devices | 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



(Power supply and Server board are included.)

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 | <ul style="list-style-type: none"> • 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 |