

# SERVER05 Specification

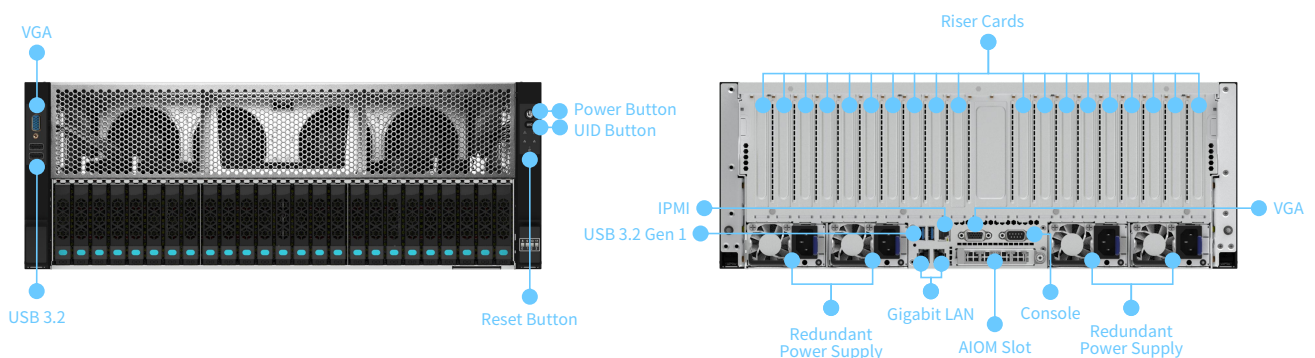


## Overview

Decenta SERVER05 is a 4U Rackmount Server which is built on Intel® Birch Stream Platform. It has advantage of high computing performance, flexible hard disk configuration, large storage capacity and high reliability. It can meet high computing applications, and could be widely used for intelligent medical treatment, machine vision, data analysis, artificial intelligence and AI deep learning training, reasoning smart city etc.

- Support Dual 6<sup>th</sup> Gen Intel® Xeon® Scalable Processors
- Support 32x DDR5 6400/5200MT/s ECC RDIMM Slots
- Up to 8x Double-Width PCI-E 5.0 x16 Card(Full Height Full Length) or 21x Single-Width PCI-E 5.0 x16 Card(Full Height Full Length)
- Up to 24x 2.5" hot-swap NVMe/SATA/SAS or 12x 3.5" hot-swap NVMe/SATA/SAS
- High Reliability with Redundant Design
- Easy To Use with Modular Design

## I/O Overview



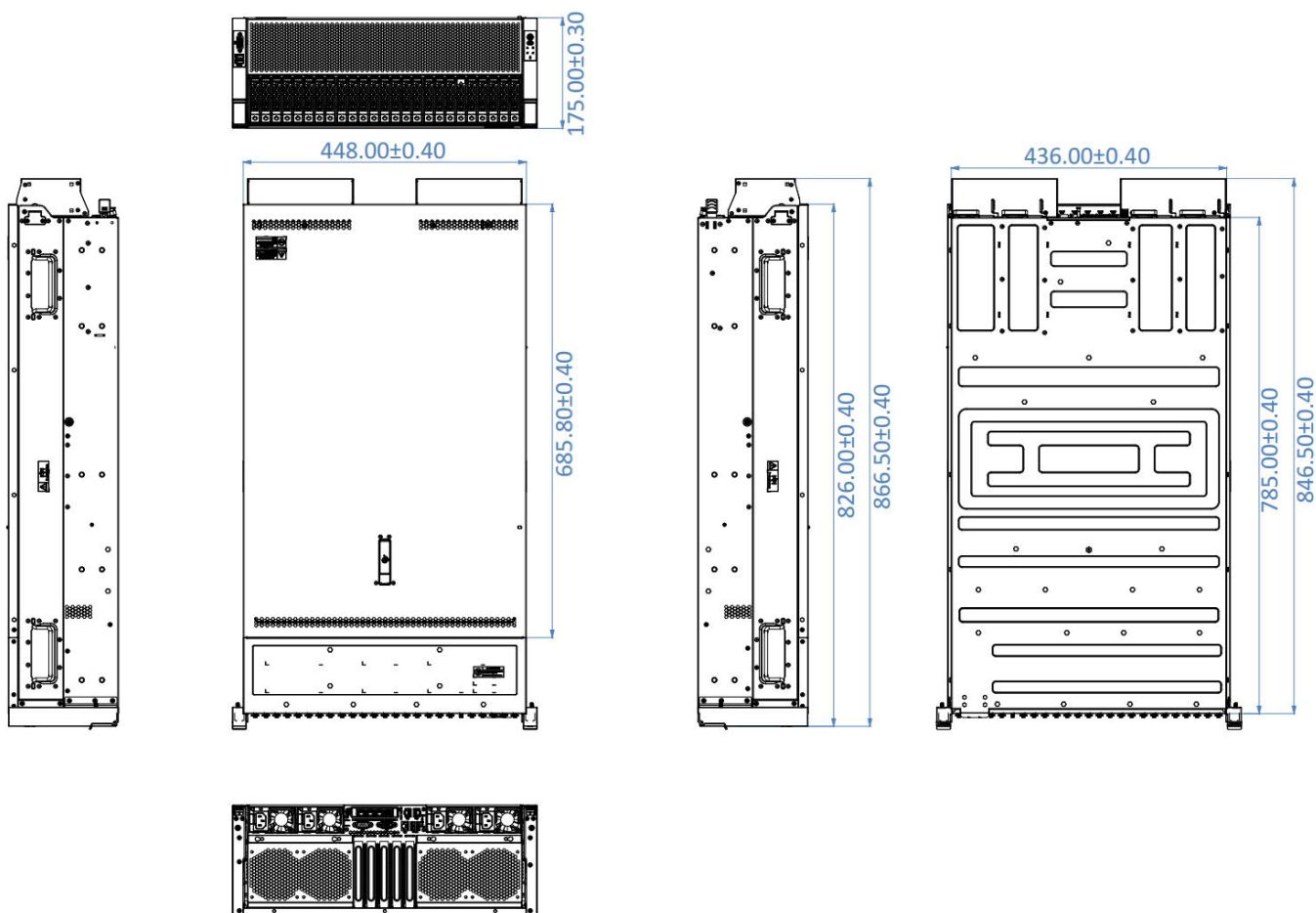
# Specifications

Model		S24-BHS-SERVER05		
SKU		SKU1	SKU2	
Form Factor		4U Rackmount		
Processor	CPU	Dual 6th Gen Intel® Xeon® Scalable processors - Support CPU TDP 350W - Up to 80P Cores		
	Platform	Intel® Birch Stream - SP		
Power Phase		8+2+2+1+1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory		
Memory	Type	32x 6400/5200 ECC DDR5 RDIMM, 8 Channels per CPU* - 6400MTs 1DPC / 5200MTs 2DPC - 2DPC/16 DIMMs per CPU		
	Capacity	Up to 8TB: 32x 256 GB DRAM		
Graphic	Supported GPU		Up to 8 Double-Width PCI-E 5.0 x16 Card (Full Height Full Length) Up to 21 Single-Width PCI-E 5.0 x16 Card (Full Height Full Length)	
	Connector	CPU-GPU Interconnect	PCI-E 5.0 x16	
Network	Ethernet	Controller	1x Intel® i350	
		Connector	2x 1Gbe RJ45	
Storage	2.5"/3.5" HDD/SSD		Up to 24x 2.5" hot-swap NVMe/SATA/SAS drive bays Up to 12x 3.5" hot-swap NVMe/SATA/SAS drive bays	
	M.2		Up to 2x M.2 2280 Slot, Support NVMe(PCIe 5.0 X4) Mode, Optional	
BMC		ASP AST2600 Module		
I/O	Front	LED	6 (1x Power_LED_White; Power on: Solid White, Power off: Off 1x UID_LED_Blue; UID has been activated by button: Solid Blue; UID has been activated using the BMC: Blinking Blue 1Hz; BMC is resetting: Blinking Blue 2Hz; BMC is setting factory defaults: Blinking Blue 4Hz; BIOS/BMC is recovering or updating: Blinking Blue 10Hz 1x Alarm_LED_Red; Overheat: Solid red, Fan failure: Blinking red 1Hz; Electricity failure: Blinking red 0.25Hz, Fault detected: Blinking red 10Hz 1x HDD_LED_Green; Not transmitting data: Off, Transmitting data: Blinking Green 2x LAN Status_LED_Green; Link LED: Solid Green, Transmitting data: Blinking Green)	
		Button	3(Power & Reset & UID)	
		2.5" Hot-swap NVMe/SAS/SATA3 Drive Bays	Up to 24 (24x PCIe signal or 24x SATA3)	
		USB 3.2 Gen 1	2	
		VGA Port	1	
	Rear	AIOM Slot	1, OCP 3.0 Support	
		Riser Card Slot	8x PCIe x16 slots + 1x PCIe x8 slot	13x PCIe x16 slots
		VGA Port	1	
		IPMI	1x RJ45	
		Console	1x DB9	
		LAN	2x RJ45	
		USB 3.2 Gen 1	2	
		Power Supply Slot	4	

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Model		S24-BHS-SERVER05	
I/O	Internal	CRPS Power Connector	4
		Power Connector(For GPU)	12x (2*4) Connectors
		MCIO	21(1 is Gen 5 x8)
		FFAP	1x (2*10)Pin Header
		HSBP I2C	1x (2*4)Pin Header
		HSBP Power Connector	3
		VROC	1x 4Pin Wafer
		TPM Header	1x (2*10)Pin
		XDP	1x 60Pin
		OCP	1(Use for BMC module)
		USB 3.2 Gen 1 + VGA	1x(2*15)Pin Header
		USB 2.0	1
		Gold finger Connector	1(140Pin)
		GPIO	8 Bit(DIP switch), Definition TBD
		Intruder	1x 2Pin Header
System Cooling		2x CPU Fans 8x System Fans 4x GPU Fans Heavy duty fans with optimal fan speed control *Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors *Status monitor for speed control	
Environment	Temperature	Operating	10°C ~ 35°C (50°F ~ 95°F)
		Non-operating	-40°C ~ 60°C (-40°F ~ 140°F)
	Humidity	Operating	8% ~ 90% (non-condensing)
		Non-operating	5% ~ 95% (non-condensing)
Feature	IPMI 2.0		Y
	Redfish		Y
Power		4x 2400W/4x 2000W/4x 3200W redundant Titanium level power supplies	
OS		Win Server/Linux	
Bios		Byo	
Dimensions		785mm x 448mm x 175mm 846.5mm x 448mm x 175mm(Include Fan Module)	

# Dimensions (Unit: mm)



\*Specifications and information contained in this document are furnished for informational use only, and are subject to change at any time without notice, and should not be construed as a commitment by Decenta.