

WA02 Specification

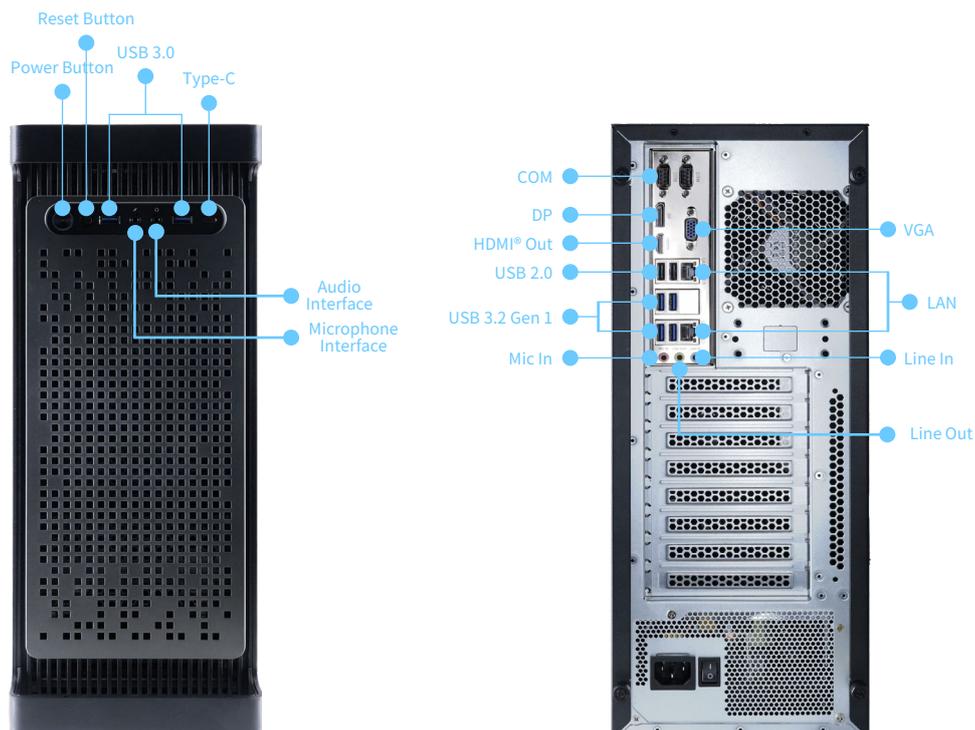


Overview

Decenta AI Tower-Swap All-in-One Machine is an information-carrying platform for edge computing scenarios. It supports enterprise-level storage and networking, features security and reliability, and enables video encoding/decoding as well as edge-side deep learning inference applications, meeting AI application needs in campuses, hospitals, finance, enterprises, industry and other environments.

- Intel® LGA1700 Socket: Ready for 15th/14th/13th/12th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor
- Support 4 x DDR5 5600/4800MT/s UDIMM, Dual Channel, up to 128GB
- Support VGA/HDMI®/DP Tri-display
- 1x M.2 E-Key 2230 Slot, 2x M.2 M-Key 2242/2280 Slots
- 2x PCIe 5.0 X16 Slots(Support 1x16 or 2x8 mode), 2x PCIe 4.0 X4 Slots, 1x PCIe 3.0 X4 Slot, 2x PCI Slots
- Support TPM 2.0, Watchdog

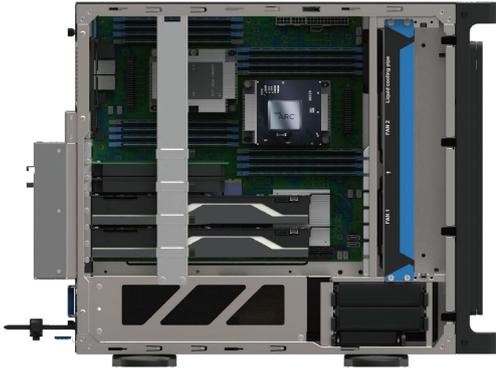
I/O Overview



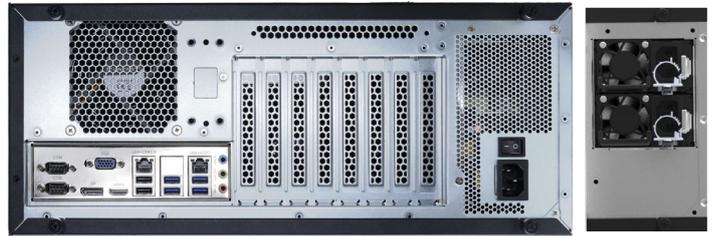
Specifications

Model		S25-ARLS-WA02	
Processor		Support Intel® 14 th /13 th /12 th gen & Ultra Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor, LGA1700, TDP 125W	
Chipset		Intel® Q670, TDP 6W	
Power Phase		8+1+1Phase-switching voltage regulator *Monitors for CPU Cores, Chipset Voltages, Memory	
Memory	Type	4 x DDR5 5600*/4800MT/s U-DIMM, Dual Channel	
	Capacity	Max.128GB	
Graphic	Controller	Intel® UHD Graphics	
	Connector	VGA/HDMI®/DP	
Network	Ethernet	Controller	1x Intel® i219V(Co-lay with Intel® i219 LM) & 1x Intel® i210 1x Intel® i226V, Reserved
		Connector	1GbE RJ45
	Wi-Fi	1x M.2 E-Key 2230 Slot for Wi-Fi 6E + BT 5.3, Support PCIe 3.0 & CNVi Signal	
Audio	Controller	Realtek ALC897	
Storage	SSD	M.2_1: M-Key 2242/2280 Slot, Support PCIe 4.0 X4(NVMe) mode, Reserved M.2_2: M-Key 2242/2280 Slot, Support PCIe 4.0 X4(NVMe) & SATA 3.0 mode	
	SATA	4	
Expansion	PCIe	2x PCIe 5.0 X16 Slots(Support 1x 16 or 2x8 mode) 2x PCIe 4.0 X4 Slots 1x PCIe 3.0 X4 Slot	
	PCI	2	
I/O	Rear	LAN	2x RJ45
		VGA	1, with resolution of 1920 x 1200 @60Hz
		HDMI® Out	1, with resolution of 4K@60Hz
		DP	1, with resolution of 4K@60Hz
		USB 3.2 Gen 1	4
		USB 2.0	2
		COM	2x DB9(RS232/422/485)
		Mic in	1
		Line in	1
Line Out	1		
Environment	Temperature	Operating	0~60 °C
		Non-operating	-40~85 °C
	Humidity	Operating	95%@ 40 °C RH non-condensing
		Non-operating	95% @ 60 °C RH non-condensing
Feature	dTPM	V2.0	
	Watchdog Timer	Programmable 1 ~ 255 sec	
Power		Standard ATX PSU	
OS		Win 10/Win 11/Linux(ubuntu)	
Bios		Insyde	
Dimensions		304.8mm x 244mm	
Accessory		2x M.2 Screws 1x I/O Shield 2x 430mm SATA Cables	
Remark		* DDR5-5600MT/s support pending ecosystem readiness of memory modules and Intel validation	

Hardware Structure



Dual - channel Motherboard Support for ATX (12"×9.6")



ATX PS2 standard power supply / CRPS redundant power supply*2 dual specifications, offering both user-friendly selection and professional reliability; rear window supports 9225 exhaust fan

*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.