

ATX04 Specification

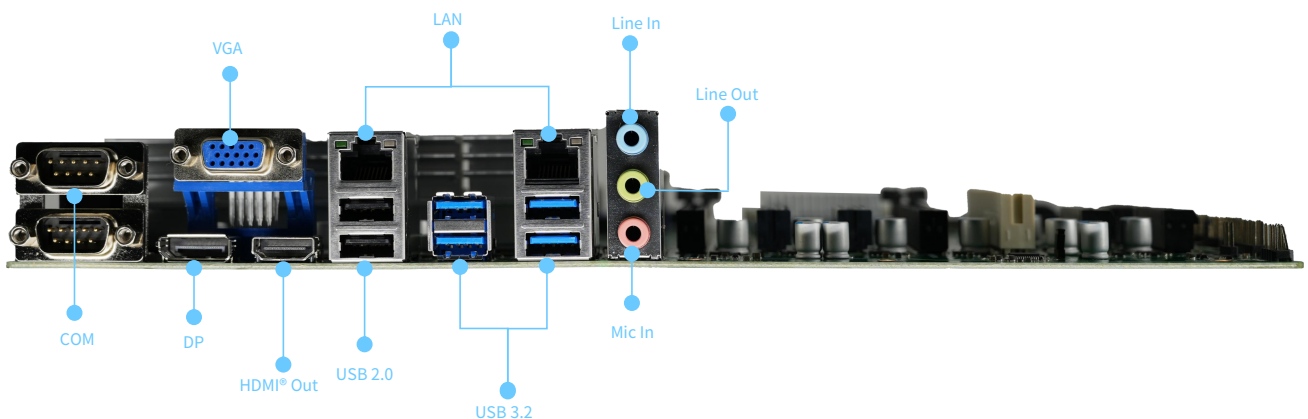


Overview

Decenta ATX04 is a standard ATX form factor motherboard, which is built on Intel® Q670 chipset. It performs well in industrial control and automation applications that require high-performance computing and scalability, such as Industrial automation, embedded systems, communication equipment, industrial servers and other scenarios.

- Intel® LGA1700 Socket: Ready for 15th/14th/13th/12th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor
- Support 4x 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(X8 Singal), 2x PCIe 4.0 X4 Slots, 2x PCIe 3.0 X4 Slots, 1x PCI Slot
- Support TPM 2.0 encryption technology

I/O Overview



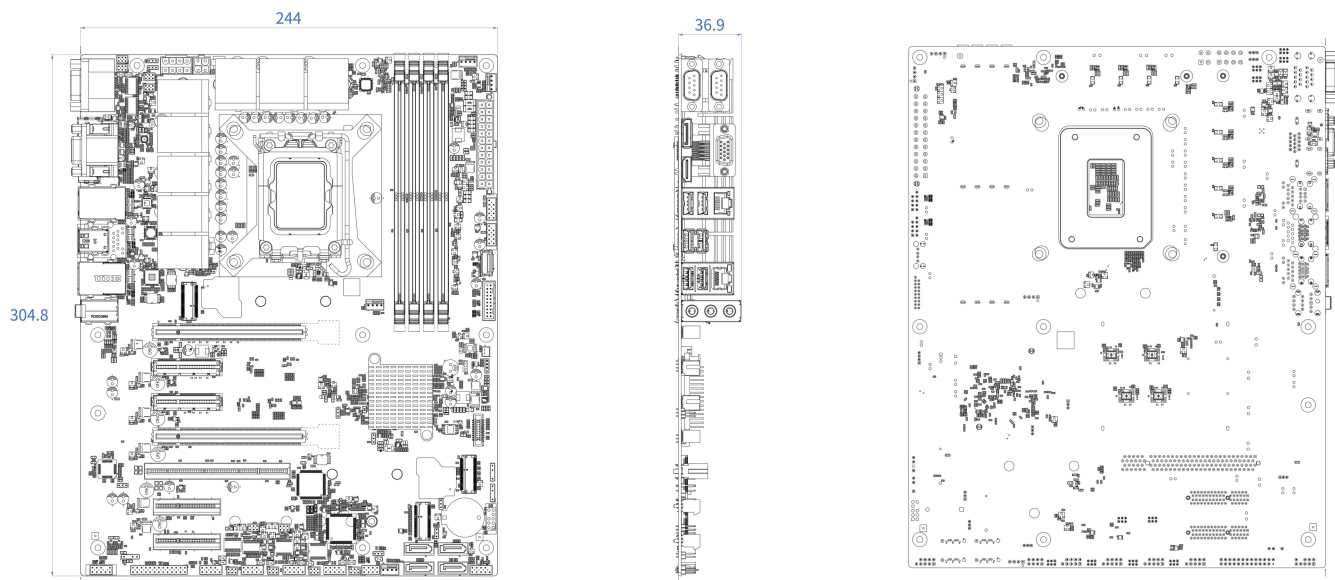
Specifications

Model		M24-RPLS-ATX04		
Processor		Support Intel® 15 th /14 th /13 th /12 th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor, TDP 125W, LGA 1700		
Chipset		Intel® Q670, TDP 6W		
Power Phase		8+1+1 Phase-switching voltage regulator *Monitors for CPU Cores, Chipset Voltages, Memory		
Memory	Type	4x DDR5 5600*/4800MT/s UDIMM Memory, Dual Channel		
	Capacity	Max.128GB		
Graphic	Controller	Intel® UHD Graphics		
	Connector	VGA/HDMI®/DP		
Network	Ethernet	Controller	1x Intel® i219V, Co-lay with Intel® i219LM 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: 1x M.2 M-Key 2242/2280 Slot, Support PCIe 4.0 X4 Mode, Reserved M.2_2: 1x M.2 M-Key 2242/2280 Slot, Support PCIe 4.0 X4 & SATA 3.0 Mode		
	SATA	4		
Expansion Slot	PCIe	2x PCIe 5.0 X16 Slots (Support 1x 16 or 2x8 mode) 2x PCIe 4.0 X4 Slots 2x PCIe 3.0 X4 Slots		
	PCI	1		
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	4x USB 3.2 Gen 1	
		USB 2.0	2	
		COM	2x DB9(RS232/422/485)	
		Mic in	1	
		Line in	1	
	Line out	1		
	Internal	LED	1x P_LED_Green(Solid Green)	
		COM	2x RS232, Header 2x RS232/422/485, Header	
		USB 3.2	2x USB 3.2 Gen 1 via (20-1) BOX Header	
		USB 2.0	4 via 2x (10-1)Pin Header, 2 is reserved 1 via Connector for security dongle	
		LPT/GPIO Header	1x 2*13(26-1)Pin header/ 8-bit (4 in, 4 out), Default GPIO 3.3V	
		Power Connector	1x 24Pin ATX + 1x 8Pin ATX + 1x 4Pin ATX	
		CPU Fan	1x 4Pin Header	
		Chassis Fan	3x 4Pin Chassis Fan Headers	
		Chassis Intrusion Header	1x (4-1)Pin Header	
		ATX/AT Mode Jumper	1x 3Pin Jumper	
AAFP		1x 2*5(10-1) Pin Front Panel Audio Header		

Specifications

Model		M24-RPLS-ATX04	
I/O	Internal	System Panel Header	1x 2*5(10-1)Pin Header
		Buzzer	1
		Speaker	1x 4Pin Header, Reserved
		ME Lock Jumper	1x 3Pin Jumper
		SPDIF_Out Header	1x 4Pin Header
		PS/2 KB/MS Header	1x 2*4(8)Pin header
		COM Setting jumper(5V/12V/RI)	6x 6Pin Jumper
		COM(RS232/422/485) Select Jumper	4x 6Pin Jumper
		RS485/422 Termination Jumper	4x 3Pin Jumper
		Watchdog	1x 3Pin Header, Reserved
		Power On Wafer	1x 2Pin Header, Reserved
		SMBus Wafer	1x 4Pin Header, Reserved
		CLRTC	1x 3Pin Header
		TPM	1x 2*10(20-1)Pin Header
		PCI CLK Select Jumper	1x 66MHz Disable/Enable Select Jumper
Feature	dTPM		V2.0
	Watchdog Timer		Programmable 1 ~ 255 sec
	Intel® vPro		γ**
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
Power		Standard ATX PSU	
OS		Win 10/Win 11/Linux(ubuntu)	
Bios		Insyde	
Dimensions		304.8mm x 244 mm	
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. ** Depend on CPU & LAN 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.