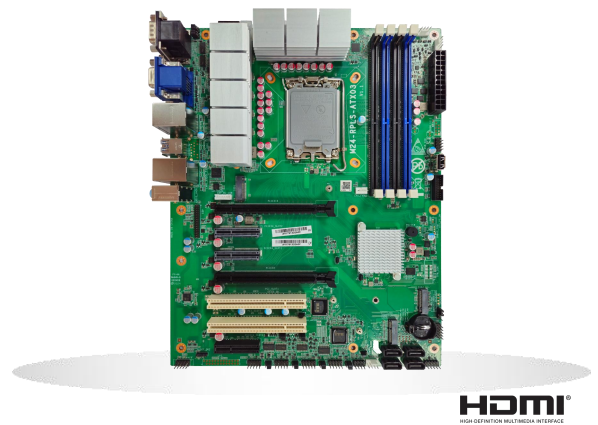


ATX03 Specification

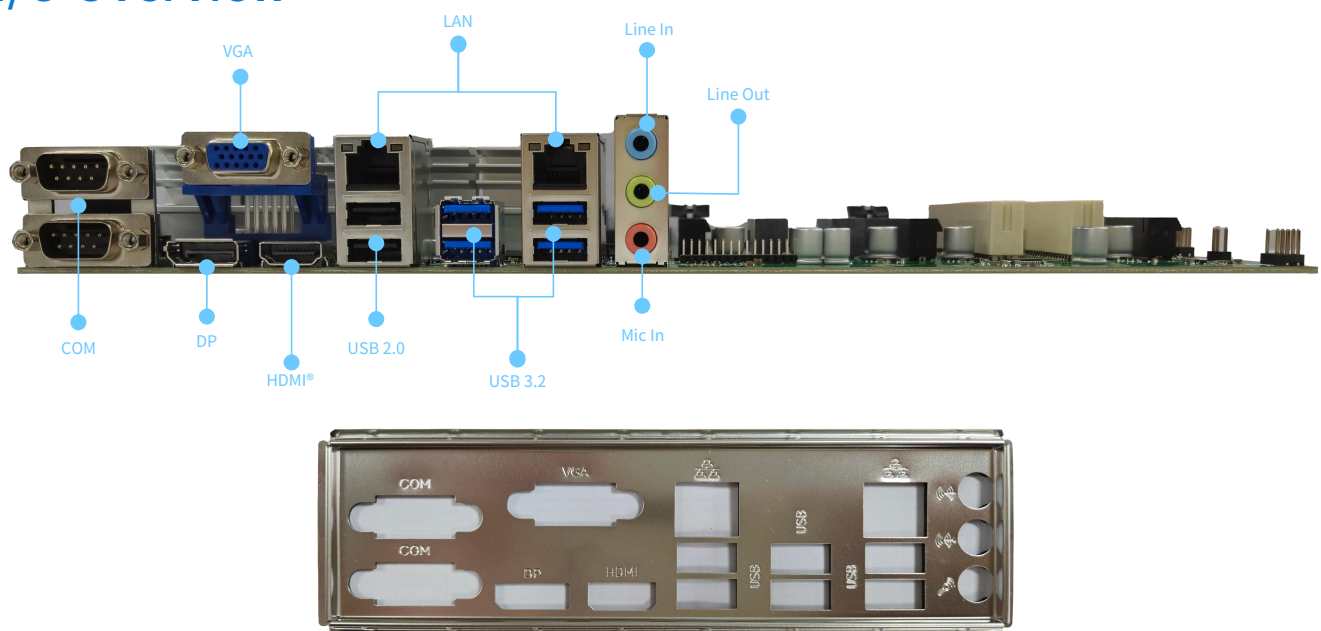


Overview

Decenta ATX03 is a standard ATX form factor motherboard based on Intel® 14th/13th/12th gen Core™ processors. 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, etc.

- Support Intel® 14th/13th/12th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor
- Intel® Q670 Chipset
- Support 4x DDR4 3200MHz UDIMM, Dual Channel, up to 128GB
- Rich display interfaces with VGA/HDMI®/DP/eDP
- 1x M.2 E-Key 2230 Slot for Wi-Fi 6E & BT 5.3
- 2x M.2 M-Key 2242/2280 Slot for storage
- 2x PCIe4.0 x16 slot, 2x PCIe 4.0 x4 Slot, 1x PCIe 3.0 x4 Slot
- Support Intel® vPro
- Support dTPM 2.0, Watchdog

I/O Overview



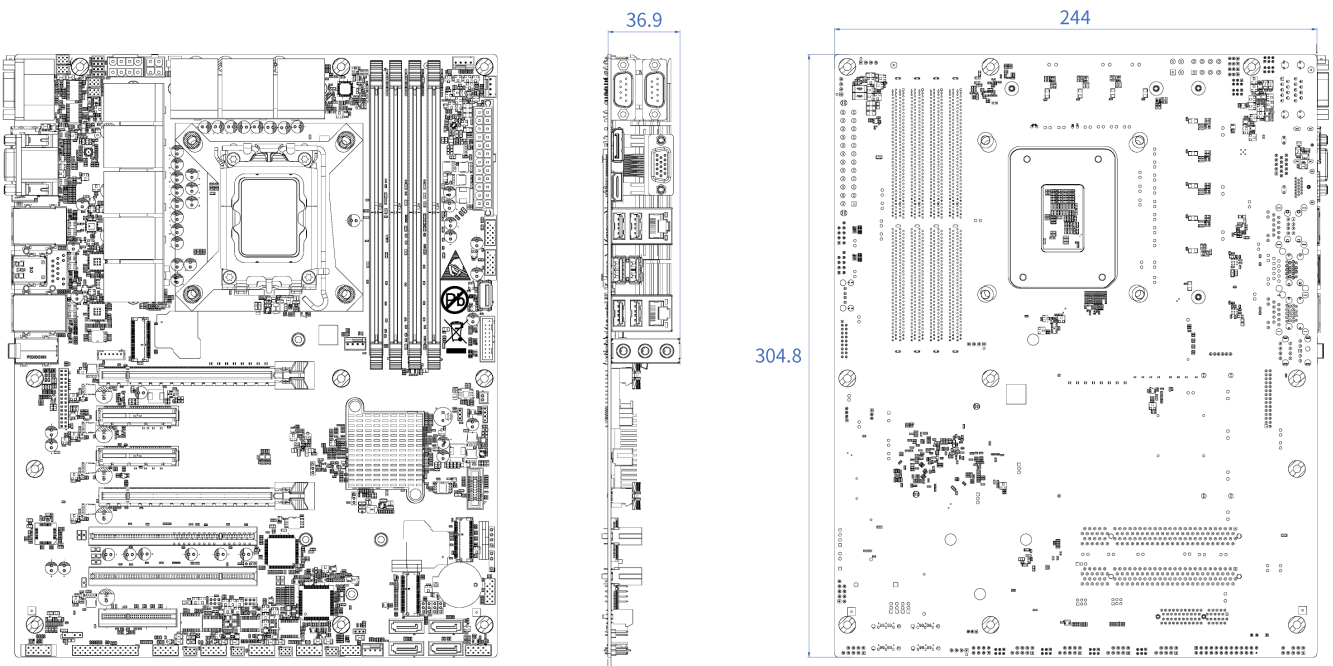
Specifications

Model		M24-RPLS-ATX03		
Processor		Support Intel® 14th/13th/12th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor,TDP 125W		
Chipset		Intel® Q670, TDP 6W		
Power Phase		8+1+1 Phase-switching voltage regulator *Monitors for CPU Cores, Chipset Voltages, Memory		
Memory	Type	4x DDR4 3200MHz U-DIMM Memory, Dual Channel		
	Capacity	Max.128GB		
Graphic	Controller	Intel® UHD Graphics 770 driven by Xe Architecture		
	Connector	VGA/HDMI®/DP/eDP		
Network	Ethernet	Controller	1x Intel® i219V, Co-lay with Intel® i219-LM 1x Intel® i210 1x Intel® I210, Reserved	
		Connector	1 GbE RJ45	
	Wi-Fi	1x M.2 E-Key 2230 Slot for Wi-Fi 6E & BT 5.3, With PCIe X1 & CNVi Mode		
Audio	Controller	Realtek ALC897		
Storage	SSD	1x M.2 M-Key 2242/2280 Slot, Support PCIe X4(NVMe) & SATA Mode * 1x M.2 M-Key 2242/2280 Slot, Support PCIe X4 Mode		
	SATA	4		
Expansion Slot	PCIe	2x PCIe 4.0 X16 Slot (Support 1x16 or 2x8 mode) Default Dual X8* 2x PCIe 4.0 X4 Slot 1x PCIe 3.0 X4 Slot		
	PCI	2		
I/O	Rear	LAN	2x RJ45	
		VGA	1, With resolution of 1920 x 1200 @60Hz	
		HDMI®	1, With resolution of 4K@30Hz	
		DP	1, With resolution of 4K@60Hz	
		USB 3.2	4x USB 3.2 Gen 1	
		USB2.0	2	
		COM	2 (RS232/422/485)	
		Mic in	1	
		Line in	1	
	Line out	1		
	Internal	LED	1x P_LED_Green; Power on: Solid Green; Power off: Off	
		COM	2x RS232, Header 2x RS232/485, Header	
		eDP	1x 30(2*15)Pin Header, With resolution of 4K@60Hz	
		eDP BL	1x 6Pin 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)	
		CPU Fan	1x 4Pin Header	
		Chassis Fan	3x 4Pin Chassis Fan headers	
		Chassis Intrusion Header	1x 4Pin Header	
		ATX/AT Mode Jumper	1	
		AAFP	1x 2*5(10-1) Pin Front Panel Audio Header	
		System Panel Header	1x 2*5 (10-1) Pin Header	

Specifications

Model		M24-RPLS-ATX03	
I/O	Internal	Buzzer	1
		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(RS232/485) Select Jumper	4x 6Pin Jumper
		COM RS485/422 TER Select Jumper	4x 3Pin Jumper
		Power On Wafer	1x 2Pin Header,Reserved
		SMBus Wafer	1x 4Pin Header, Reserved
		CLRTC	1x 3Pin Header
		TPM	1x Header, Reserved
		PCI CLK Select Jumper	1x 66MHz Disable/Enable Select Jumper
		LED Header	1x 2*5 (10-1) Pin Header, Reserved for server07 LAN status LED & Alarm LED
Feature	dTPM 2.0		Y
	WatchDog		Programmable 1 ~ 255 sec
	Intel® vPro		Y
Environment	Temperature	Operating	0 ~ 60 °C
		Non-operating	-40 ~ 75 °C
	Humidity	Operating	95%@ 40 °C, RH non-condensing
		Non-operating	95% @ 60 °C, RH non-condensing
Power		1x 24Pin ATX + 1x 8Pin ATX + 1x 4Pin ATX	
OS		Win 10/Win 11/Linux(ubuntu)	
Bios		Insyde	
Dimensions		304.8mm x 244 mm	
Accessory		3x M.2 Screws 1x I/O Shield 1x 430mm SATA Cables	
Remark		*When PCIe X16 Support X16 signal, M.2 SSD_1 only support PCIe X2 Model	

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.