

ATX06 Specification

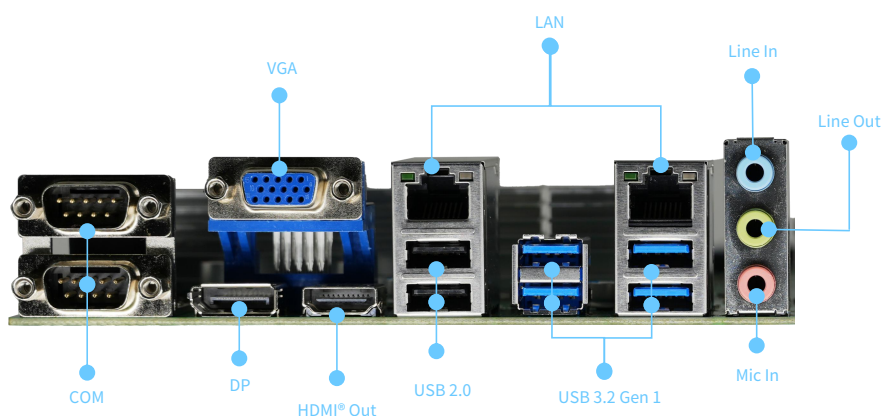


Overview

Decenta ATX06 is a standard ATX form factor motherboard, which is built on Intel® Z390/Q370/B360 chipset. It has multiple expansion slots and rich I/O interfaces, making it widely used in Industrial automation, embedded systems, communication equipment, industrial servers and other scenarios.

- Intel® LGA 1151 Socket: Ready for 9th/8th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor
- Support 4x DDR4 2666MT/s U-DIMM, Dual Channel, up to 128GB
- Support VGA/HDMI®/DP/eDP Quad-display
- 1x M.2 E-Key 2230 Slot for Wi-Fi module, Support Wi-Fi 6E & Bluetooth 5.3
- 1x M.2 M-Key 2242/2280 Slot for SSD
- 2x PCIe 3.0 X16 Slots(Support 1x16 or 2x8 mode), 3x PCIe 3.0 X4 Slots(X4 Signal), 2x PCI Slots
- Support TPM 2.0 encryption technology

I/O Overview



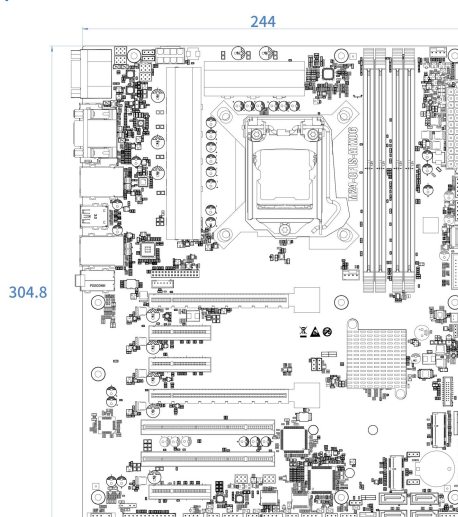
Specifications

Model			M24-CFLS-ATX06	
SKU			SKU1(Default)	SKU2
Processor			Support Intel® 9 th /8 th gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor, LGA 1151, TDP 95W	
Chipset			Intel® Z390/Q370, TDP 6W	Intel® Z390/B360, TDP 6W
Power Phase			4(2+2)+1+1Phase-switching voltage regulator *Monitors for CPU Cores, Chipset Voltages, Memory	
Memory	Type		4x DDR4 2666MT/s U-DIMM Memory, Dual Channel	
	Capacity		Max.128GB	
Graphic	Controller		Intel® UHD Graphics 630	
	Connector		VGA/HDMI®/DP/eDP	
Network	Ethernet	Controller	1x Intel® i219V, Co-lay with Intel® i219LM 1x Intel® i210	
		Connector	1GbE RJ45	
	Wi-Fi		1x M.2 E-Key 2230 Slot for Wi-Fi 6E & BT5.3, with PCIe 3.0 & CNVi mode	
Audio	Controller		Realtek ALC897	
Storage	SSD		1x M.2 M-Key 2242/2280 Slot, Support PCIe 3.0 X4(NVMe) & SATA mode	1x M.2 M-Key 2242/2280 Slot, Support SATA mode
	SATA		4	
Expansion Slot	PCIe		2x PCIe 3.0 X16 Slots(Support 1x16 or 2x8 mode) 3x PCIe 3.0 X4 Slots(X4 Signal)	1x PCIe 3.0 X16 Slot(X16 Signal) 2x PCIe 3.0 X4 Slots(X4 Signal)
	PCI		2	
I/O	Rear	LAN	2x RJ45	
		VGA	1, with resolution of 1920 x 1200 @60Hz	
		HDMI® Out	1, with resolution of 4K@30Hz	
		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	
	Internal	LED	1x P_LED_Green(Solid Green)	
		COM	2x RS232, Header 2x RS232/422/485, Header	
		eDP	1x 30(2*15)Pin Header, with resolution of 4K@60Hz	
		eDP BL	1x 6Pin Header	
		USB 3.2 Gen 1	2 via (20-1)Pin Header	
		USB 2.0	4 via 2x (10-1)Pin Header, 2 is reserved 1 via Connector for security dongle	2 via 1x (10-1)Pin Header 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	
		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-CFLS-ATX06
I/O	Internal	System Panel Header	1x 2*5(10-1) Pin Header
		Buzzer	1
		ME Lock Jumper	1x 3Pin Jumper
		SPDIF_Out Header	1x (4-1)Pin 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 Select Jumper	4x 3Pin Jumper
		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 Disbale/Enable Select Jumper
Feature	dTPM		V2.0
	Watchdog Timer		Programmable 1 ~ 255 sec
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

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.