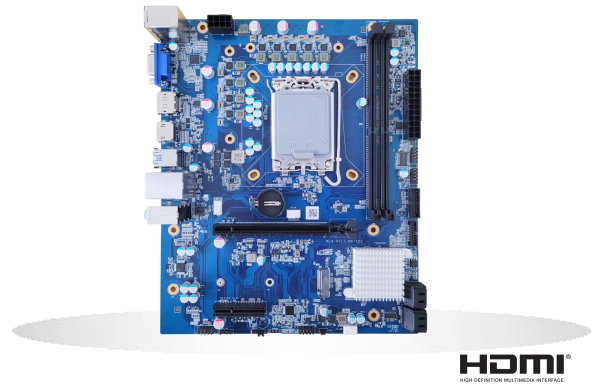


MATX02 Specification

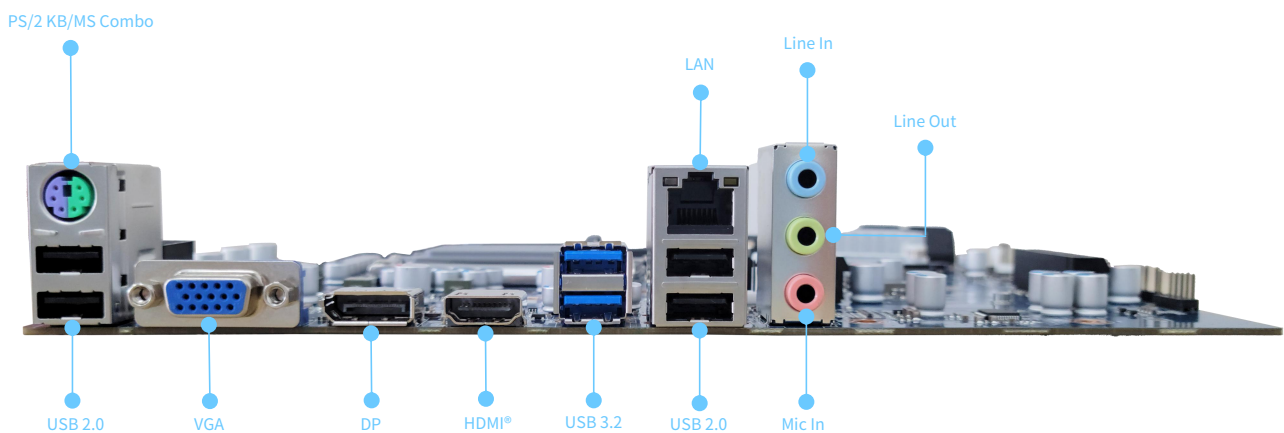


Overview

Decenta MATX02 is a Micro-ATX form factor motherboard, which is built on Intel® Raptor Lake Refresh/Raptor Lake/Alder Lake-S platform. It is widely used in Light industrial control, embedded systems, mobile industrial equipment, IoT devices, etc.

- Support Intel® 14th/13th/12th gen Core™/Pentium®/Celeron® Processor
- Intel® H610 Chipset
- 2x DDR4 3200MHz U-DIMM, Dual Channel, Max.64GB
- Support 1920 x 1200@60Hz VGA, 4K@60Hz HDMI® Out, 4K@60Hz DP
- Support 1x 1GbE LAN, 4x USB 3.2, 6x USB 2.0
- Support 1x M.2 M-Key 2280 Slot, 4x SATA
- Support 1x PCIe 4.0 X16 Slot, 1x PCIe 3.0 X4 Slot
- Support TPM 2.0 encryption technology

I/O Overview



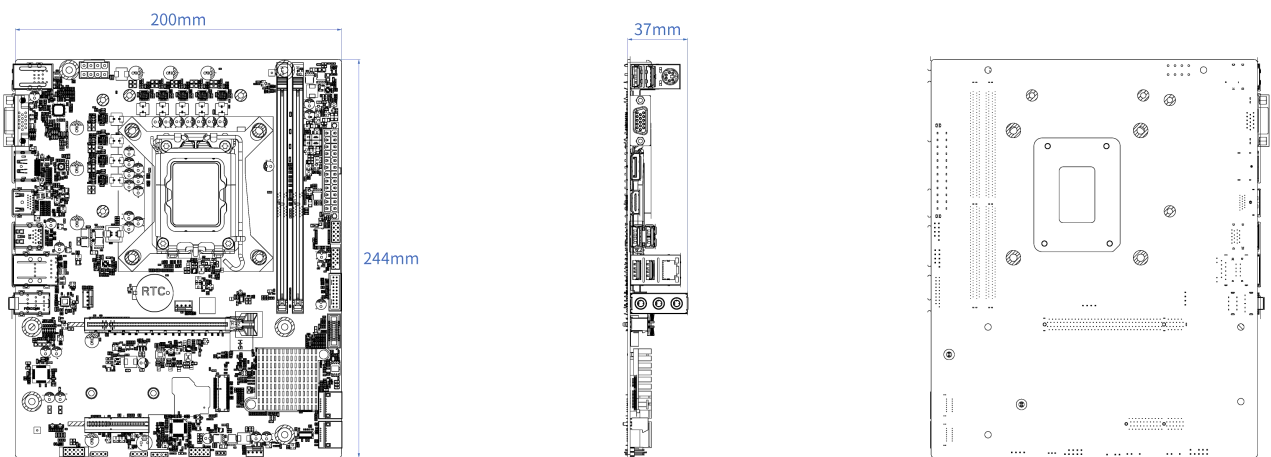
Specifications

Model		M24-RPLS-MATX02	
Processor		Support Intel® 14th/13th/12th gen Core™/ Pentium®/Celeron® processor, TDP 65W	
Chipset		Intel® H610, TDP 6W	
Power Phase		8+1+1 Phase-switching voltage regulator *Monitors for CPU Cores, Chipset Voltages, Memory	
Memory	Type	2x DDR4 3200MHz U-DIMM Memory, Dual channel	
	Capacity	Max.64GB	
Graphic	Controller	Intel® UHD Graphics	
	Connector	VGA/HDMI®/DP	
Network	Ethernet	Controller	Intel® i219V
		Connector	1GbE RJ45
Audio	Controller		Realtek ALC897
Storage	SSD		1x M.2 M-Key 2280 Slot, Support PCIe X4 & SATA Mode*
	SATA		4*
Expansion Slot	PCIe		1x PCIe 4.0 X16 Slot 1x PCIe 3.0 X4 Slot
I/O	Rear	LAN	1x RJ45
		VGA	1, With resolution of 1920 x 1200 @60Hz
		HDMI®	1, With resolution of 4K@60Hz
		DP	1, With resolution of 4K@60Hz
		USB 3.2	2x USB 3.2 Gen 1
		USB 2.0	4
		Mic In	1x 3.5mm Audio Jack
		Line In	1x 3.5mm Audio Jack
		Line Out	1x 3.5mm Audio Jack
		PS/2 KB/MS Combo	1
	Internal	COM	1x RS232, Header
		USB 3.2	2x USB 3.2 Gen 1 via (20-1) BOX Header
		USB 2.0	2 via (10-1)Pin Header
		Power Connector	1x 24Pin ATX + 1x 8Pin ATX
		CPU Fan	1x 4Pin Header
		Chassis Fan	2x 4Pin Chassis Fan Headers
		Chassis Intrusion Header	1x 4Pin Header, Reserved
		SPDIF_Out Header	1x 4Pin Header
		AAFP	1x 2*5(10-1) Pin Front Panel Audio Header
		System Panel Header	1x 2*5(10-1) Pin Header
CLRTC	1x 3Pin Header		
TPM	1x 2*10Pin Header, Reserved		
Feature	TPM 2.0		Y
Environment	Temperature	Operating	0°C-60°C
		Non-operating	-40°C-75°C
	Humidity	Operating	95%@ 40 °C, RH non-condensing
		Non-operating	95% @ 60 °C, RH non-condensing

Specifications

Model	M24-RPLS-MATX02
Power	Standard ATX PSU
OS	Win 11 Home or Enterprise
Bios	Insyde
Dimensions	244mm x 200mm
Remark	* When M.2 is SATA mode, SATA_1 is not available

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.