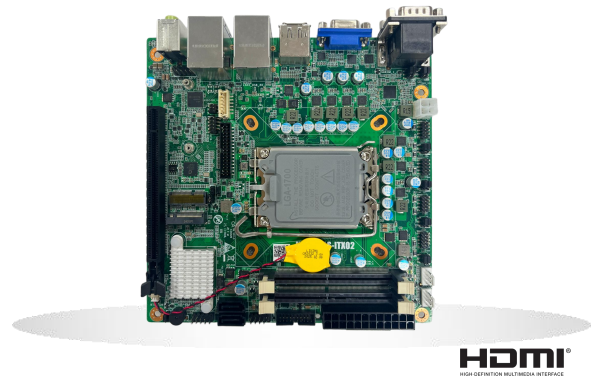


# ITX02 Specification

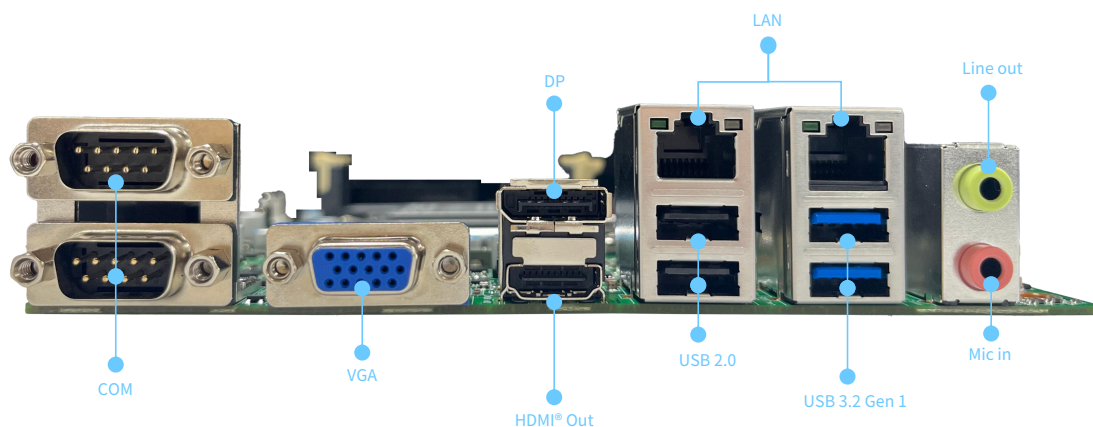


## Overview

Decenta ITX02 is a standard mini-ITX form factor motherboard, which is built on Intel® H610 Chipset. Its advantages include space saving, easy assembly of small chassis, and suitability for compact space and portability needs. It is widely used in Light industrial control, embedded systems, mobile industrial equipment, IoT devices, and other scenarios.

- Intel® LGA1700 Socket: Ready for 15<sup>th</sup>/14<sup>th</sup>/13<sup>th</sup>/12<sup>th</sup> gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor
- Support 2x DDR4 3200MT/s SO-DIMM, Dual channel, up to 64GB
- Support VGA/HDMI®/DP/LVDS/eDP Quad-display
- 1x M.2 E-Key 2230 Slot, 1x M.2 M-Key 2242/2280 Slot
- 1x PCIe 4.0 X16 Slot
- Support TPM 2.0 encryption technology

## I/O Overview



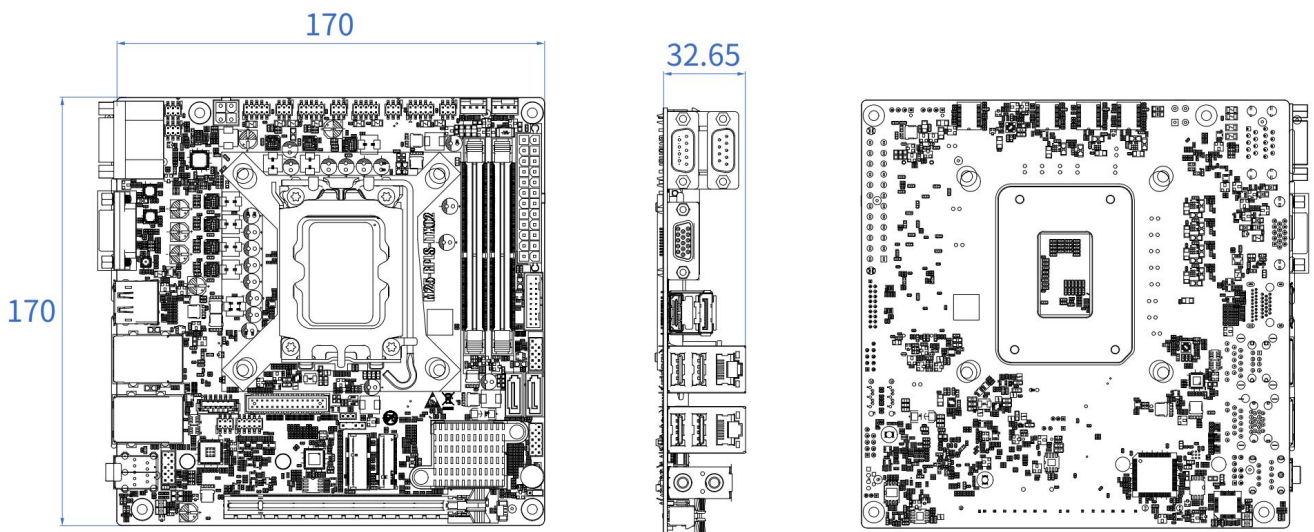
# Specifications

Model		M25-RPLS-ITX02		
Processor		Support Intel® 15 <sup>th</sup> /14 <sup>th</sup> /13 <sup>th</sup> /12 <sup>th</sup> gen Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor, LGA1700, TDP 65W		
Chipset		Intel® H610, TDP 6W		
Power Phase		6+1+1 Phase-switching voltage regulator *Monitors for CPU Cores, Chipset Voltages, Memory		
Memory	Type	2x DDR4 3200MT/s SO-DIMM memory, Dual channel		
	Capacity	Max.64GB		
Graphic	Controller	Intel® UHD Graphics		
	Connector	HDMI®/DP/VGA/LVDS/eDP		
Network	Ethernet	Controller	1x Intel® i219V 1x Intel® i210	
		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	1x M.2 M-Key 2242/2280 Slot, Support PCIe 3.0 X4 or SATA, BOM optional		
	SATA	2		
Expansion Slot	PCIe	1x PCIe 4.0 X16 Slot		
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	2	
		USB 2.0	2	
		COM	2x DB9(RS232/422/485)	
		Mic in	1	
		Line out	1	
	Internal	LED	1x P_LED_Green(Solid Green)	
		COM	4x RS232, Header	
		USB 3.2 Gen 1	2 via (20-1)Pin Header	
		USB 2.0	2 via (10-1)Pin Header	
		LVDS/eDP	1x 30Pin Header(Default LVDS), with resolution of 1080P	
		eDP BL	1x 6Pin Header	
		LVDS/eDP Panel Voltage Selection	1x 6Pin Jumper(5V/12V/Default 3.3V)	
		GPIO	8-bit (4 in, 4 out), Default 3.3V	
		Power Connector	1x 24Pin ATX + 1x 4Pin ATX	
		CPU Fan	1x 4Pin Header	
		Chassis Fan	1x 4Pin Header	
		Chassis Intrusion Header	1x 4Pin Header	
		ATX/AT Mode Jumper	1x 3Pin Jumper	
		AAFP	1x 2*5(10-1)Pin Front Panel Audio Header	

# Specifications

Model		M25-RPLS-ITX02	
I/O	Internal	System Panel Header	1x 2*5 (10-1)Pin Header
		Buzzer	1
		Speaker	1x 4Pin Header, Reserved
		COM Setting Jumper(5V/12V/RI)	6x 6Pin Jumper(Default RI)
		CLRTC	1x 3Pin Jumper
Feature	FTPM		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 11/Linux(ubuntu)	
Bios		Insyde	
Dimensions (Length x Width)		170mm x 170mm	
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.