

RX610H

**12/13th Gen Intel® Core™ i9/i7/i5/i3
Processor, supports LGA 1700 CPU Up to 65W
Max**



Product Features

- LGA 1700 Socket Supports 12th/13th Gen. Intel® Core™ i9/i7/i5/i3, Pentium, Celeron Processors with Intel® H610E Chipset
- 4 x SATA III
- 1 x Intel® I219-V and 1 x Intel® I225-LM 2.5 Gigabit Ethernet Controller
- 1 x M.2 NVMe M-Key, 1 x M.2 E-Key Supports CNVi
- ATX Power
- 2 x DIMM Slots, Dual Channel DDR5 Up to 4800MHz with UDIMM, Up to 64GB
- 1 x PCIe x16 (Gen 5), 3 x PCIe x1 (Gen 3)
- 2 x USB 2.0, 4 x USB 3.2 and 4 x USB 2.0, 2 x USB 3.2 Gen 1 Header
- 1 x RS-232/422/485, 5 x RS-232

Specification

System Information

Processor	LGA 1700 Socket Supports 12/13th Generation Intel® Core™ i9/i7/i5/i3 Processors (Max. TDP at 65W)
Platform Controller Hub	Intel® H610E Chipset
System Memory	2 x 288-Pin DDR5 4800MHz Dual Channel U-DIMM Socket Supports Up to 64GB
I/O Chipset	nuvoton NCT6126D
Watchdog Timer	H/W Reset, 5~255 Seconds/5~255 Minutes
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
H/W Status Monitor	CPU Temperature Monitoring Voltages Monitoring CPU Fan Speed Control
TPM	infineon TPM 2.0
Board	Micro ATX

Expansion

Expansion	1 x Gen 5 PCIe x16 (x16 Physical Black) (Slot 1) 1 x Gen 3 PCIe x1 (x4 Physical Open Ended) (Slot 2) 2 x Gen 3 PCIe x1 (x16 Physical Yellow) (Slot 3 & 4) 1 x M.2 M-Key 2242/2280/22110 NVMe (PCIe x4 + SATA III) 1 x M.2 E-Key 2230 with CNVi Support (PCIe x 1 Share with Slot4 + USB 2.0) 3 x SATA III 1 x SATA III Shared with M.2
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Display	
Graphic Chipset	Intel® 12/13th Generation CPU Integrated
Spec. & Resolution	1 x HDMI (2.0b) 4K x 2K@60Hz (with HDR) 2 x DP (DP1.4a): Max: 7680 x 4320@60Hz (2 x DP++: 1920 x 1080@60Hz)
Multiple Display	Triple Display
Audio	
Audio Codec	Realtek ALC888S HD Audio Decoding Controller
Audio Interface	Line-out, Mic-in
Audio Amplifier	2 x 6W 8Ω Amplifier
Ethernet	
LAN Chipset	1 x Intel® I219V Gigabit Ethernet 1 x Intel® I225LM 2.5 Gigabit Ethernet
LAN Port	2 x RJ45
Power Requirement	
Power Mode	AT/ATX (Default Setting: ATX)
Software Support	
OS	Windows 10, Windows 11, Linux
Certification	
Certification Information	CE, FCC Class B, RoHS Compliant
I/O	
USB	2 x USB 2.0 Type A 4 x USB 3.2 Type A 4 x USB 2.0 by pin header 2 x USB 3.2 Gen1 by pin header
COM Port	5 x RS-232 by pin header 1 x RS-232/422/485 by pin header
SATA	3 x SATA III 1 x SATA III Shared with M.2
DIO	1 x 8-bit GPIO
MIO	1 x PS/2 Header 1 x LPT Header
Mechanical & Environmental	
Operating Temp.	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp.	-20°C ~ 80°C (-4°F ~ 176°F)
Operating Humidity	5% ~ 90% Relative Humidity, Non-condensing
Weight	1.45lbs (0.65kg)

Power Requirement	+12V/+5V/5VSB/+3.3V/-12V
Power Mode	AT/ATX (Default Setting: ATX)
Dimension (L x W)	9.6" x 9.6" (243.84mm x 243.84mm)

Ordering Information

Ordering Information	71842-1A LGA 1700 socket supports 12th/13th Gen Intel® Core™ i9/i7/i5/i3 Processors Micro ATX Motherboard With Intel® H610E PCH
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