

259.00 EUR

incl. 19% VAT, plus [shipping](#)

- H610 !
- 2x LAN !



- Intel® Raptor Lake-S Refresh 14th/Raptor Lake-S 13th /Alder Lake-S 12th i9/i7/i5/i3 125W processor
- Intel® Q670 Chipset
- Intel® vPro technology support (Q670)
- 4x DDR4 U-DIMM up to 128GB
- 1 x PCIe X16 slot, 2 x PCIe X8 slot (x4 Lanes), 2 x M.2 2280/2210 M-key (NVME)
- Support triple display for 3 x DisplayPort
- Up to 6 x SATAIII (support RAID 0, 1, 5, 10)
- Up to 2 x Intel® Gigabit Ethernet
- Up to 7 x USB 3.2 Gen1, 4 x USB 2.0, 2 x COM ports
- ATX power input

FORM FACTOR

Micro-ATX: 9.6" x 9.6" (244 mm x 244 mm)

	14th/13th/12th Gen Intel® Raptor Lake-S Refresh/ Raptor Lake-S/ Alder Lake-S LGA1700 Socket Processor / Core i9/i7/i5/i3 Processor / TDP 125W
PROCESSOR	
CHIPSET	Intel® H610
SYSTEM MEMORY	4 x 288-pin U-DIMM / DDR4 3200 MHz / Max. 128 GB (Non-ECC)
GRAPHICS	Intel® UHD Graphics 770
ETHERNET	Intel® I219-LM Giga LAN + Intel® I225V 2.5 Giga LAN
AUDIO	Realtek® ALC888-VR
I/O CHIPSET	Nuvoton NCT6796D-E
TPM	TPM Header / (support optional TPM module board NPCT750)
EXPANSION SLOT	Q670: PCIe 3.0 X16 slot/ 2 x PCIe 3.0 X8 slot (X4 Lanes)/ M.2 2280 / 22110 M key (PCIe X4)/ M.2 2280 / 22110 M key (PCIe X2) / H610: PCIe 3.0 X16 slot/ 1 x PCIe 3.0 X8 slot (X4 Lanes)/ M.2 2280 / 22110 M key (PCIe X2)
BIOS	AMI BIOS / 256 Mbit SPI
H/W MONITOR	Temperature Monitor / Voltage Monitor / Fan Monitor
WATCHDOG TIMER	1~255 steps by software program
SMART FAN CONTROL	CPU Fan / System Fan
VGA	-
DVI	-
HDMI	-
DISPLAYPORT	Up to 4K (4096 x 2304) @60 Hz
LVDS	-
eDP (Option)	-
USB	4 x USB 3.2 Gen 1(2 x with USB2.0 Signal only when H610) / 2 x USB 2.0
DISPLAY I/O	3 x DisplayPort 1.2
AUDIO I/O	1 x 6-stack Audio Jack
LAN I/O	2 x RJ-45
SERIAL PORT	-
PS/2 PORT	-
OTHERS	-

STORAGE	6 x SATAIII (4 x SATAIII when H610)
	2 x USB 2.0
	/ 1 x USB 3.2 Gen1 Type A connector (This Type A connector is with USB2.0 Signal only when H610) / 2 x USB 3.2 Gen1
USB	
DISPLAY I/O	-
AUDIO I/O	1 x Front Audio
SERIAL PORT	2 x RS232
PS/2 PORT	-
PARALLEL PORT	-
GPIO	-
FAN	1 x 4-pin CPU Fan Header / 3 x 4-pin system Fan Header
	1 x 8-pin ATX Power Connector
POWER	/ 1 x 24-pin ATX Power Connector
	1 x CMOS Jumper
OTHERS	/ 1 x FIO header
	/ 1 x SPI TPM header
POWER INPUT	ATX 8-pin + ATX 24-pin
OPERATING TEMPERATURE	0 ~ 60°C (32 ~140°F)
STORAGE TEMPERATURE	-20 ~ 70°C (-4 ~158°F)
OPERATING HUMIDITY	10% ~ 95% R/H (Non-condensing)
CERTIFICATION	CE / FCC Class B
	Linux (support by request) /
OS SUPPORT	Ubuntu 20.04 / Windows® 10 64-bit / Windows® 11 64bit,
	1 x 50 cm SATA Cable / 1 x I/O Bracket / 1 x Motherboard
PACKAGE	