



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

- Intel Alder Lake !
- Q670 Chipset !
- 12V DC-in !
- vPro !

Long-term availability until at least 2030.

- Intel® Alder Lake 12th i9/i7/i5/i3 LGA 65W processor
- Available with Intel® H610 / Q670 Chipset
- Intel® vPro technology support (only Q670)
- 2x DDR4 SO-DIMM up to 64GB
- Support dual display for 2x DisplayPort
- 1x M.2 2280M-key (NVME & SATA), 1 x PCIe X16 Gen 4
- 1 x Intel® 2.5Gigabit Ethernet, 1 x Intel® Gigabit Ethernet
- DC-in 12V

FORM FACTOR

Mini-ITX: 6.7" x 6.7" (170 mm x 170 mm)

PROCESSOR

12th Gen Intel® Alder Lake LGA1700 Socket Processor / Core i9/i7/i5/i3 Processor / TDP 65W

CHIPSET

Intel® Q670

SYSTEM MEMORY

DDR4 3200 MHz
/ 2 x 260-pin SO-DIMM
/ Max. 64 GB (Non-ECC)

GRAPHICS

Intel® UHD Graphics

ETHERNET

Intel® I219-LM Giga LAN + Intel® I225V 2.5 Giga LAN

AUDIO

-

I/O CHIPSET

Nuvoton NCT6126D(eSPI)

TPM

TPM Header / (support optional TPM module board NPCT750)

EXPANSION SLOT	PCIe 4.0 X16 slot / 1x M.2 2280 M key (PCIe3.0 X4, SATAIII)
BIOS	-
H/W MONITOR	Temperature Monitor / Voltage Monitor / Fan Monitor
WATCHDOG TIMER	1~255 steps by software program
SMART FAN CONTROL	CPU Fan / System Fan
2nd DISPLAYPORT	Up to 4K (4096 x 2304) @60 Hz
VGA	-
DVI	-
HDMI	-
DISPLAYPORT	Up to 4K (4096 x 2304) @60 Hz
LVDS	-
eDP (Option)	-
USB	2 x USB 2.0 / 2 x USB 3.2 Gen 2
DISPLAY I/O	2 x DisplayPort 1.4
AUDIO I/O	1 x Mic-in / 1 x Line-out
LAN I/O	2 x RJ-45
SERIAL PORT	-
PS/2 PORT	-
OTHERS	DC-in 12V (2.5 mm / ID, 5.5 mm / OD)
STORAGE	2 x SATAIII / 1 x SATA power header / 1 x SATA DOM header 2 x USB 3.2 Gen1
USB	/ 2 x USB 2.0
DISPLAY I/O	-
AUDIO I/O	-
SERIAL PORT	1 x RS232 / 1 x RS232 / 422 / 485
PARALLEL PORT	-
GPIO	-
FAN	1 x 4-pin CPU Fan Header / 1 x 4-pin System Fan Header 1x 12V DC in Jack (same as S5557; 2.5mm/ ID, 5.5mm/ OD), / 1 x
POWER	ATX-4pin Connector
OTHERS	1 x CMOS Jumper / 1 x FIO header / 1 x intrusion switch header
POWER INPUT	DC-in 12V (2.5 mm / ID, 5.5 mm / OD) / ATX 4-pin 12V
OPERATING TEMPERATURE	0 ~ 60°C (32 ~140°F)
STORAGE TEMPERATURE	-40 ~ 85°C (-40 ~185°F)
OPERATING HUMIDITY	10% ~ 95% R/H (Non-condensing)
CERTIFICATION	CE / FCC Class B
OS SUPPORT	Windows® 11 64bit, / Windows® 10 IoT LTSC 64bit (LTSC 2021) / Ubuntu 22.04 / Linux (support by request)
PACKAGE	1 x Motherboard / 2 x I/O Bracket (Half and Full Height) / 1 x SATA & SATA PWR Cable