



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

- Intel® Q170 Express Chipset
- Supports Intel LGA 1151 Socket Core™ i3, i5, i7 & Pentium Processors
- 2 * Dual Channel DDR4 2133MHz up to 32GB
- 2* GbE LAN (Intel i211AT & i219LM)
- Support Intel vPro, Active Management Technology (iAMT 11.0)
- Integrated Realtek ALC662VD Audio CODEC 6-CH
- Support 1*PCIe x16 slot
- Support 4 * SATAIII (6.0Gb/s), Support RAID 0,1,5,10
- HDMI/DP/DVI-D Video Outputs
- Built-in Watchdog Timer Technology
- Mini-ITX Form Factor (170mm * 170mm)

Form Factor	
Dimensions	- Mini-ITX (170 * 170mm)
Processor System	
CPU	- Intel LGA 1151 Socket Core i7 / i5 / i3 Pentium Processor
Core Number	- (by CPU)
Max Speed	- (by CPU)
L2 Cache	- (by CPU)

Chipset	- Intel Q170 Express chipset
BIOS	- AMI 128Mb Flash ROM
Expansion Slot	
PCI	- 0
Mini-PCIe	- 2 (1* Half size & 1*Full size co-lay with mSATA)
mSATA	- 1 (Full size , co-lay with mPCIe)
PCIe	- 1 x16
CFast Card Socket	- 0
CF Card Socket	- 0
Memory	
Technology	- DDR4 2133MHz Dual CH
Max.	- 32GB
Socket	- 2 * SO-DIMM
Graphics	
Controller	- (by CPU)
VRAM	- Shared Memory
VGA	- 0
LVDS	- 1 * Onboard 24-bits dual channel connector
HDMI	- 1 (Hdmi2.0 , Max. Resolution: 4096*2160@60Hz)
DVI-D	- 1 (Max. Resolution: 1920*1080)
DisplayPort	- 1 (DP1.2, Max. Resolution: 4096*2304@60Hz)
MultiDisplay	- Yes (Triple Display)
Ethernet	
Ethernet	- 10/100/1000 Mbps
Controller	- GbE LAN: INI219LM + i211AT
Connector	- 2* RJ 45
Audio	
CODEC	- HD Audio : Realtek ALC662VD
Channel	- 6 Channel
SATA	
Max Data Transfer Rate	- 4 * SATAIII (6.0Gb/s)
RAID	- Yes(RAID 0,1,5,10)
Rear I/O	
VGA	- 0
DVI-D	- 1
HDMI	- 1
DisplayPort	- 1
Ethernet	- 2
USB	- 6 * USB 3.0
Audio	- 3 (MIC , Line-out, Line-in)
Serial	- 2 (COM1 support RS232/422/485)
eSATA	- 0
PS2	- 0
Internal Connector	
USB	- 2 * USB 2.0

PS/2	- 1
LVDS / inverter	- 1
VGA	- 0
Serial	- 2 (COM 3 support RS232/422/485)
SATA	- 4 * SATAIII (6.0Gb/s)
mPCIe	- 2 (1*Half size , 1*Full size co-lay with mSATA)
Parallel	- 0
mSATA	- 1 (Full size co-lay with mPCIe)
CIR	- 0
GPIO 8-bit	- 4in / 4out
Chassis intrusion	- 1
Audio Header	- 1
TPM	- 1 (Option)
Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments, 0,1,2...255sec/min
Power Requirements	
Input PWR	- 24 pin/4 pin ATX PWR Connector
Power On	AT/ATX Supported - AT : Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
Certifications	
Certifications	- CE, FCC, RoHS, REACH
Environment	
Temperature	- Operating: 0°C – 60°C - Storage: -20°C – 85°C