



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)

<b>Form Factor</b>	
Dimensions	- Mini-ITX (170 * 170mm)
<b>Processor System</b>	
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
<b>Expansion Slot</b>	
PCI	- 0
Mini-PCle	- 2 (1* Half size & 1*Full size co-lay with mSATA)
mSATA	- 1 ( Full size , co-lay with mPCle)
PCIe	- 1 x16
CFast Card Socket	- 0
CF Card Socket	- 0
<b>Memory</b>	
Technology	- DDR4 2133MHz Dual CH
Max.	- 32GB
Socket	- 2 * SO-DIMM
<b>Graphics</b>	
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)
<b>Ethernet</b>	
Ethernet	- 10/100/1000 Mbps
Controller	- GbE LAN: INI219LM + i211AT
Connector	- 2* RJ 45
<b>Audio</b>	
CODEC	- HD Audio : Realtek ALC662VD
Channel	- 6 Channel
<b>SATA</b>	
Max Data Transfer Rate	- 4 * SATAIII (6.0Gb/s)
RAID	- Yes(RAID 0,1,5,10)
<b>Rear I/O</b>	
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
<b>Internal Connector</b>	
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)
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments, 0,1,2...255sec/min
<b>Power Requirements</b>	
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
<b>Certifications</b>	
Certifications	- CE, FCC, RoHS, REACH
<b>Environment</b>	
Temperature	- Operating: 0°C – 60°C - Storage: -20°C – 85°C