



269.00 EUR

incl. 19% VAT, plus shipping

- **Intel Coffee Lake !**
- **Mini ITX !**
- **Half-Height !**
- **8th / 9th Gen. Intel Core !**



- Intel® LGA1151 Socket Core I3,I5,I7 Pentium Processor (Max. 65W)
- Intel® Coffee Lake-S H310 Chip
- Support Single Channel DDR4 2133MHz, up to 64GB
- 1* Intel® I219-V + 1* Intel® i211AT GbE
- 1* SATAIII (6Gb/s), 1* M.2 (M key 2242), 1* M.2 E key Support CNVi, 1* PCIe x4 Slot
- HDMI/VGA /EDP (CO-lay LVDS) Output
- 4* RS232 (COM1/2 Support 5V/12V TTL), 4* External USB3.0, 5* Internal USB2.0
- Support Wide Voltage 12~24V DC-in
- Thin MINI ITX Form Factor (170 *170 mm)

Form Factor

Dimensions	– Thin Mini ITX (170 * 170mm)
Processor System	
CPU	– Intel® LGA1151 Series Processor (Max. 65W)
Core Number	– (By CPU)
Max Speed	– (By CPU)
L2 Cache	– (By CPU)
Chipset	– H310
BIOS	– AMI 128M Flash ROM
Expansion Slot	
M.2	– 1* E key 2230,Support CNVi – 1* M Key 2242
SATA	– 1
PCIe	– 1 (PCIe x4 slot)
Memory	
Technology	– Single channel DDR4 2133MHz DRAM
Max.	– 64GB
Socket	– 2 * SO-DIMM
Graphics	
Controller	– Intel® HD Graphics

VRAM	- Shared Memory
VGA	- 1 (Max. Resolution: 1920×1200@60Hz)
LVDS	- 1 (Co-lay eDP, Max. Resolution: 1920×1080@60Hz)
eDP 1.3	- 1 (Co-lay LVDS, Max. Resolution: 4096×2304@60Hz)
HDMI 1.4	- 1 (Max. Resolution : 4096×2160@30Hz)
Multi Display	- Dual Display

Ethernet

Ethernet	- 10/100/1000 Mbps
Controller	- Intel® I219-V + i211AT Gigabit LAN
Connector	- 2* RJ 45

Audio

CODEC	- N/A
Channel	- N/A

SATA

Max Data Transfer Rate	- 1* SATAIII (6.0Gb/s)
------------------------	------------------------

Rear I/O

VGA	- 1
HDMI	- 1

Ethernet	- 2
USB	- 4* USB 3.0
Audio	- 1 (Line-out, MIC, No function)
DC-input	- 1

Internal Connector

USB	- 5 (USB 2.0)
PS/2	- 1
LVDS / inverter	- 1 (Co-lay eDP)
eDP	- 1
Serial	- 4 (COM1/2 Support 5V/12V TTL)
SATA	- 1* SATAIII (6.0Gb/s)
M.2	- 2 (M key + E key)
GPIO	- 1 (8 bit)
Chassis intrusion	- 1
Audio Header	- 1 (No function)
SMBUS/ I2C	- 1
AT mode	- 1

Watchdog Timer

Output	– From Super I/O to drag RESETCON#
Interval	– 256 segments (10sec ~ 255min)
Power Requirements	
Input PWR	– 12 ~ 24V DC-in
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