



279.00 EUR

incl. 19% VAT, plus shipping

- Intel 8th/9th Gen. !
- H310 Chipset !
- SBC !

- Intel® LGA1151 Socket Core I3,I5,I7 Pentium Processor
- Intel® Coffee Lake-S H310 Chip
- Support Dual Channel DDR4 2133MHz SO-DIMM up to 32GB
- Support 1* MXM VGA Card Socket (MXM:90W)
- 1* SATA III (6Gb/s) & M.2 (M key 2280, NVMe), 1* PCI-E x1, 1* M.2 E key Support CNVi, 1* M.2 B key Support 3G/4G Module
- 1* Intel® I219LM GbE, 2* RS232 (COM2 Support 5V/12V TTL), 4* External USB3.1, 4* Internal USB2.0
- 12 ~ 36V DC-in
- Form Factor: 220*200mm

MXM module not included in scope of supply !

Form Factor

Dimensions

– SBC (220 * 220mm)

Processor System

CPU

– Intel® LGA1151 Coffee Lake Series Processor (Max 90W)

Core Number

– (by CPU)

Max Speed

– (by CPU)

L2 Cache

– (by CPU)

Chipset

– H310 /Q370

BIOS

– AMI 128M Flash ROM

Expansion Slot

Expansion

- 1* M.2 M Key (2280, for NVMe)
- 1* M.2 E Key (2230, support CNVi)
- 1* M.2 B Key (3042, support 3G/4G Module)
- 1* SATA
- 1* PCIe x1 slot
- 1* MXM Card Socket (Max: 90W)
- 1* SIM Card holder

Memory

Technology

– Dual CH DDR4 2400MHz DRAM

Max.

– 32GB

Socket

– 2 * SO-DIMM

Graphics 1

Controller	– Intel® HD Graphics
VRAM	– Shared Memory
eDP 1.2	– 1 (Max Resolution : 4096×2304@60Hz, by CPU)
DisplayPort	– 1 (Max Resolution : 4096×2304@60Hz, by CPU)
HDMI	– 1 (Max Resolution : 4096×2160@30Hz, by CPU)

Graphics 2

Controller	– by MXM VGA Cards
DisplayPort	– 1* DP, by MXM VGA Card
HDMI	– 3* HDMI, by MXM VGA Card
Multi Display	– 6

Ethernet

Ethernet	– 10/100/1000 Mbps
Controller	– Intel® I219LM GbE
Connector	– 1 * RJ 45

Audio

CODEC	– HD Audio : Realtek ALC662VD
Channel	– Line-Out, MIC

SATA

Max Data Transfer Rate	– 1* SATAIII (6.0Gb/s)
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Rear I/O

Rear I/O	<ul style="list-style-type: none">– 2* HDMI– 2* DP– 1* RJ45– 4* USB3.1– Line-Out, MIC– 9~36 V DC-in
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Internal Connector

Internal Connector	<ul style="list-style-type: none">– 4* USB 2.0– 1* eDP– 3* HDMI– 2* COM (COM2 support 5V/12V TTL)– 1* SATAIII (6.0Gb/s)– 3* M.2 (M key, E key, B key)– 1* 8bit GPIO– 1* Chassis intrusion– 1* Audio Header– 1* 3W AMP Speaker– 1* SMBUS/ I2C– 1* AT mode
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Watchdog Timer

Output	– From Super I/O to drag RESETCON#
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Interval	– 256 segments (10sec ~ 255min)
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Power Requirements

Input PWR	– 12~36V DC-in
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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