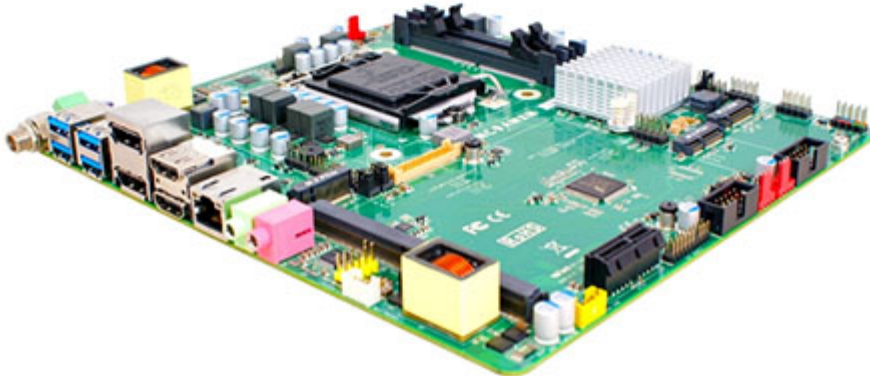


279.00 EUR

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 !

| <b>Form Factor</b>      |  |
|-------------------------|--|
| Dimensions              | – SBC (220 * 220mm)  |
| <b>Processor System</b> |  |
| 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   |
| <b>Expansion Slot</b>   |  |
| Expansion               | <ul style="list-style-type: none"> <li>– 1* M.2 M Key (2280, for NVMe)</li> <li>– 1* M.2 E Key (2230, support CNVi)</li> <li>– 1* M.2 B Key (3042, support 3G/4G Module)</li> <li>– 1* SATA</li> <li>– 1* PCIe x1 slot</li> <li>– 1* MXM Card Socket (Max: 90W)</li> <li>– 1* SIM Card holder</li> </ul> |
| <b>Memory</b>           |  |
| Technology              | – Dual CH DDR4 2400MHz DRAM  |
| Max.                    | – 32GB   |
| Socket                  | – 2 * SO-DIMM  |
| <b>Graphics 1</b>       |  |
| Controller              | – Intel® HD Graphics   |
| VRAM                    | – Shared Memory  |
| eDP 1.2                 | – 1 (Max Resolution : 4096x2304 @60Hz, by CPU)   |
| DisplayPort             | – 1 (Max Resolution : 4096x2304 @60Hz, by CPU)   |
| HDMI                    | – 1 (Max Resolution : 4096x2160 @30Hz, by CPU)   |
| <b>Graphics 2</b>       |  |
| Controller              | – by MXM VGA Cards   |
| DisplayPort             | – 1* DP, by MXM VGA Card   |
| HDMI                    | – 3* HDMI, by MXM VGA Card   |
| Multi Display           | – 6  |
| <b>Ethernet</b>         |  |
| Ethernet                | – 10/100/1000 Mbps   |
| Controller              | – Intel® I219LM GbE  |
| Connector               | – 1 * RJ 45  |
| <b>Audio</b>            |  |
| CODEC                   | – HD Audio : Realtek ALC662VD  |
| Channel                 | – Line-Out, MIC  |
| <b>SATA</b>             |  |
| Max Data Transfer Rate  | – 1* SATAIII (6.0Gb/s)   |
| <b>Rear I/O</b>         |  |

|                           |  |
|---------------------------|--|
| Rear I/O                  | <ul style="list-style-type: none"> <li>- 2* HDMI</li> <li>- 2* DP</li> <li>- 1* RJ45</li> <li>- 4* USB3.1</li> <li>- Line-Out, MIC</li> <li>- 9~36 V DC-in</li> </ul>  |
| <b>Internal Connector</b> |  |
| Internal Connector        | <ul style="list-style-type: none"> <li>- 4* USB 2.0</li> <li>- 1* eDP</li> <li>- 3* HDMI</li> <li>- 2* COM (COM2 support 5V/12V TTL)</li> <li>- 1* SATAIII (6.0Gb/s)</li> <li>- 3* M.2 (M key, E key, B key)</li> <li>- 1* 8bit GPIO</li> <li>- 1* Chassis intrusion</li> <li>- 1* Audio Header</li> <li>- 1* 3W AMP Speaker</li> <li>- 1* SMBUS/ I2C</li> <li>- 1* AT mode</li> </ul> |
| <b>Watchdog Timer</b>     |  |
| Output                    | - From Super I/O to drag RESETCON#   |
| Interval                  | - 256 segments (10sec ~ 255min)  |
| <b>Power Requirements</b> |  |
| Input PWR                 | - 12~36V DC-in   |
| Power On                  | AT/ATX Supported<br>- AT : Directly PWR on as Power input ready<br>- 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  |