

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



- Intel® LGA1151 Socket Core i3, i5, i7 & Pentium Processors (max. 65W)
- Intel® H110 Express Chipset
- Support Dual Channel DDR4 2133MHz, 2 \* DIMM slot, up to 32GB memory
- 2 \* Realtek Gigabit LAN (RTL8111G)
- 3 \* SATA III (6Gb/s), 1 \* M.2 (M key 2242, 2260, 2280, 22110)
- 4 \* USB 3.0, 5 \* USB 2.0/1.1
- 10 \* COM ports (COM1 supports RS232/422/485)
- Support TPM 1.2 function (option)
- Micro ATX form factor (244mm x 244mm)

| Form Factor      |                                                                |
|------------------|----------------------------------------------------------------|
| Dimensions       | – Micro ATX (244 * 244mm)                                      |
| Processor System |                                                                |
| CPU              | – Intel LGA 1151 Socket Core i7 / i5 / i3 & Pentium Processors |
| Core Number      | – (By CPU)                                                     |
| Max Speed        | – (By CPU)                                                     |
| L2 Cache         | – (By CPU)                                                     |

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| Chipset                   | – Intel H110 Chipset                                   |
| BIOS                      | – AMI 64Mb Flash ROM                                   |
| <b>Expansion Slot</b>     |                                                        |
| Mini-PCle                 | – 1 (full size)                                        |
| m.2                       | – 1 (M Key 2242, 2260, 2280, 22110)                    |
| PCIe                      | – 1 * PCIe x16 & 1 * PCIe x 1                          |
| PCI                       | – 2                                                    |
| SIM card holder           | – 1                                                    |
| <b>Memory</b>             |                                                        |
| Technology                | – Dual Channel DDR4 2133MHz                            |
| Max.                      | – 32GB                                                 |
| Socket                    | – 2 * DIMM                                             |
| <b>Graphics</b>           |                                                        |
| Controller                | – Intel® Gen9 Graphics supports DX 11/12, OGL4.3 / 4.4 |
| VRAM                      | – Shared Memory                                        |
| VGA                       | – 1 (Max. Resolution : 1920*1200@60Hz)                 |
| DVI-D                     | – 1 (Max. Resolution : 1920*1200@60Hz)                 |
| HDMI                      | – 1 (Max. Resolution : 3840*2160@24Hz)                 |
| DP                        | – 0                                                    |
| eDP                       | – 0                                                    |
| MultiDisplay              | – Dual Display                                         |
| <b>Ethernet</b>           |                                                        |
| Ethernet                  | – 10/100/1000 Mbps                                     |
| Controller                | – PCIe GbE LAN : Realtek RTL8111G                      |
| Connector                 | – 2 * RJ 45                                            |
| <b>Audio</b>              |                                                        |
| CODEC                     | – HD Audio : Realtek ALC662                            |
| Channel                   | – 6 Channel                                            |
| <b>SATA</b>               |                                                        |
| Max Data Transfer Rate    | – 3 * SATAIII (6.0Gb/s) and 1 * M.2                    |
| RAID                      | – No                                                   |
| <b>Rear I/O</b>           |                                                        |
| VGA                       | – 1                                                    |
| DVI-D                     | – 1                                                    |
| HDMI                      | – 1                                                    |
| Ethernet                  | – 2                                                    |
| USB                       | – 4 * USB 3.0, 2 * USB 2.0/1.1                         |
| Audio                     | – 3 (Line-In, Line-Out, MIC)                           |
| Serial                    | – 2 (COM1 support RS232/422/485 )                      |
| PS2                       | – 0                                                    |
| DC-input                  | – 0                                                    |
| <b>Internal Connector</b> |                                                        |
| USB                       | – 3 * USB 2.0                                          |
| Serial                    | – 8                                                    |
| SATA                      | – 3                                                    |

|                           |                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|
| mPCIe                     | – 1 (full size)                                                                                                          |
| M.2                       | – 1 (M key 2242, 2260, 2280, 22110)                                                                                      |
| SIM card holder           | – 1                                                                                                                      |
| Chassis intrusion         | – 1                                                                                                                      |
| PS/2                      | – 1                                                                                                                      |
| GPIO                      | – 1 (8 bit programmable inputs/outputs)                                                                                  |
| SMBUS                     | – 1                                                                                                                      |
| Audio Header              | – 1                                                                                                                      |
| TPM                       | – 1 (Option)                                                                                                             |
| AT mode                   | – 1                                                                                                                      |
| <b>Watchdog Timer</b>     |                                                                                                                          |
| Output                    | – From Super I/O to drag RESETCON#                                                                                       |
| Interval                  | – 256 segments (10sec ~ 255min)                                                                                          |
| <b>Power Requirements</b> |                                                                                                                          |
| Input PWR                 | – 24 pin/8 pin ATX PWR Connector                                                                                         |
| 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                                                                                                  |