



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

- Intel 6th/7th Gen. !
- H110 Chipset !
- Micro ATX !
- 10x COM !



- Intel® LGA1151 Socket Core i3, i5, i7 & Pentium Processors (Max. 65W)
- Intel® H110 Express Chipset
- Support Dual Channel DDR4 2133MHz, 2* UDIMM slot up to 32GB memory
- 2* Intel Gigabit LAN (I219-V + I211-AT)
- 3* SATA III (6Gb/s), 1* M.2 (M-key 2242/2260/ 2280/22110)
- 4* USB 3.0, 5* USB 2.0, 10* COM ports (COM1 supports RS232/422/485)
- Support TPM function (option)
- Micro ATX form factor (244mm x 244mm)

| Model / Part Number | |
|----------------------------|---|
| Model | <ul style="list-style-type: none"> - MM91-00: No TPM - MM91-02: TPM 2.0 onboard |
| Part Number | <ul style="list-style-type: none"> - MM91-00: No TPM - MM91-02: TPM 2.0 onboard |
| Form Factor | |
| Dimensions | - Micro ATX (244 * 244mm) |
| Processor System | |
| CPU | - Intel® LGA1151 SkyLake/KabyLake Processor (Max. 65W TDP) |
| Core Number | - (By CPU) |
| Max Speed | - (By CPU) |
| Cache | - (By CPU) |
| Chipset | - H110 |
| BIOS | - AMI Flash ROM |
| Expansion Slot | |
| Expansion | <ul style="list-style-type: none"> - 1* Mini PCIe (full size) - 1* PCIe16 slot - 1* PCIe4 slot - 2* PCI - 1* SIM card slot |
| Memory | |
| Technology | - Dual CH DDR4 2133MHz UDIMM |
| Max. | - 32GB |
| Socket | - 2* UDIMM |
| Graphics | |
| Controller | - Intel® HD Graphics |
| VRAM | - Shared Memory |
| VGA | - 1 (Max Resolution: 1920x1200@60Hz) |
| DVI-D | - 1 (Max Resolution: 1920x1200@60Hz) |
| HDMI 1.4 | - 1 (Max Resolution: 4096x2160@30Hz) |
| Multi Display | - Dual Displays |
| Ethernet | |
| Ethernet | - 10/100/1000 Mbps |
| Controller | - PCIe GbE: 1* i219V, 1* i211AT |
| Connector | - 2 * RJ45 |
| Audio | |
| CODEC | - HD Audio: Realtek ALC662 |
| Channel | - 6 Channel |
| SATA | |
| SATA | - 3* SATAIII |
| I/O Connector | |

| | |
|---------------------------|--|
| Rear I/O | <ul style="list-style-type: none"> - 1* VGA - 1* HDMI - 1* DVI-D - 2* Ethernet RJ45 - 4* USB 3.1 (Gen. 1) & 2* USB2.0 - Line-In, Line-Out, MIC - 2* COM (COM 1 support RS232/422/485) |
| Internal Connector | <ul style="list-style-type: none"> - 2* USB 2.0, 1* USB2.0 (Vertical type) - 1* PS/2 - 8* COM - 3* SATAIII - 1* SIM card slot - 1* Mini PCIe (full size) - 1* M.2 M-key 2242/2260/2280/22110 (SATA I/F) - 1* GPIO (8 bit) - 1* Chassis intrusion - 1* Audio Header - 1* SMBUS - 1* AT mode - Support onboard TPM (option) |
| Watchdog Timer | |
| Output | - From Super I/O to drag RESETCON# |
| Interval | - 256 segments (10sec ~ 255min) |
| Power Requirements | |
| Input PWR | - ATX PWR (8+24 pin) |
| 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, LVD, RoHS, REACH |
| Environment | |
| Temperature | - Operating: 0°C ~ 60°C |
| | - Storage: -20°C ~ 85°C |
| Warranty | |