



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

- 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: 1920×1200@60Hz)
DVI-D	– 1 (Max Resolution: 1920×1200@60Hz)
HDMI 1.4	– 1 (Max Resolution: 4096×2160@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
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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