



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	