



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)

<b>Model / Part Number</b>	
Model	<ul style="list-style-type: none"> <li>- MM91-00: No TPM</li> <li>- MM91-02: TPM 2.0 onboard</li> </ul>
Part Number	<ul style="list-style-type: none"> <li>- MM91-00: No TPM</li> <li>- MM91-02: TPM 2.0 onboard</li> </ul>
<b>Form Factor</b>	
Dimensions	- Micro ATX (244 * 244mm)
<b>Processor System</b>	
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
<b>Expansion Slot</b>	
Expansion	<ul style="list-style-type: none"> <li>- 1* Mini PCIe (full size)</li> <li>- 1* PCIe16 slot</li> <li>- 1* PCIe4 slot</li> <li>- 2* PCI</li> <li>- 1* SIM card slot</li> </ul>
<b>Memory</b>	
Technology	- Dual CH DDR4 2133MHz UDIMM
Max.	- 32GB
Socket	- 2* UDIMM
<b>Graphics</b>	
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
<b>Ethernet</b>	
Ethernet	- 10/100/1000 Mbps
Controller	- PCIe GbE: 1* i219V, 1* i211AT
Connector	- 2 * RJ45
<b>Audio</b>	
CODEC	- HD Audio: Realtek ALC662
Channel	- 6 Channel
<b>SATA</b>	
SATA	- 3* SATAIII
<b>I/O Connector</b>	

Rear I/O	<ul style="list-style-type: none"> <li>- 1* VGA</li> <li>- 1* HDMI</li> <li>- 1* DVI-D</li> <li>- 2* Ethernet RJ45</li> <li>- 4* USB 3.1 (Gen. 1) &amp; 2* USB2.0</li> <li>- Line-In, Line-Out, MIC</li> <li>- 2* COM (COM 1 support RS232/422/485)</li> </ul>
Internal Connector	<ul style="list-style-type: none"> <li>- 2* USB 2.0, 1* USB2.0 (Vertical type)</li> <li>- 1* PS/2</li> <li>- 8* COM</li> <li>- 3* SATAIII</li> <li>- 1* SIM card slot</li> <li>- 1* Mini PCIe (full size)</li> <li>- 1* M.2 M-key 2242/2260/2280/22110 (SATA I/F)</li> <li>- 1* GPIO (8 bit)</li> <li>- 1* Chassis intrusion</li> <li>- 1* Audio Header</li> <li>- 1* SMBUS</li> <li>- 1* AT mode</li> <li>- Support onboard TPM (option)</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	- 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
<b>Certifications</b>	
Certifications	- CE, FCC, LVD, RoHS, REACH
<b>Environment</b>	
Temperature	- Operating: 0°C ~ 60°C
	- Storage: -20°C ~ 85°C
<b>Warranty</b>	