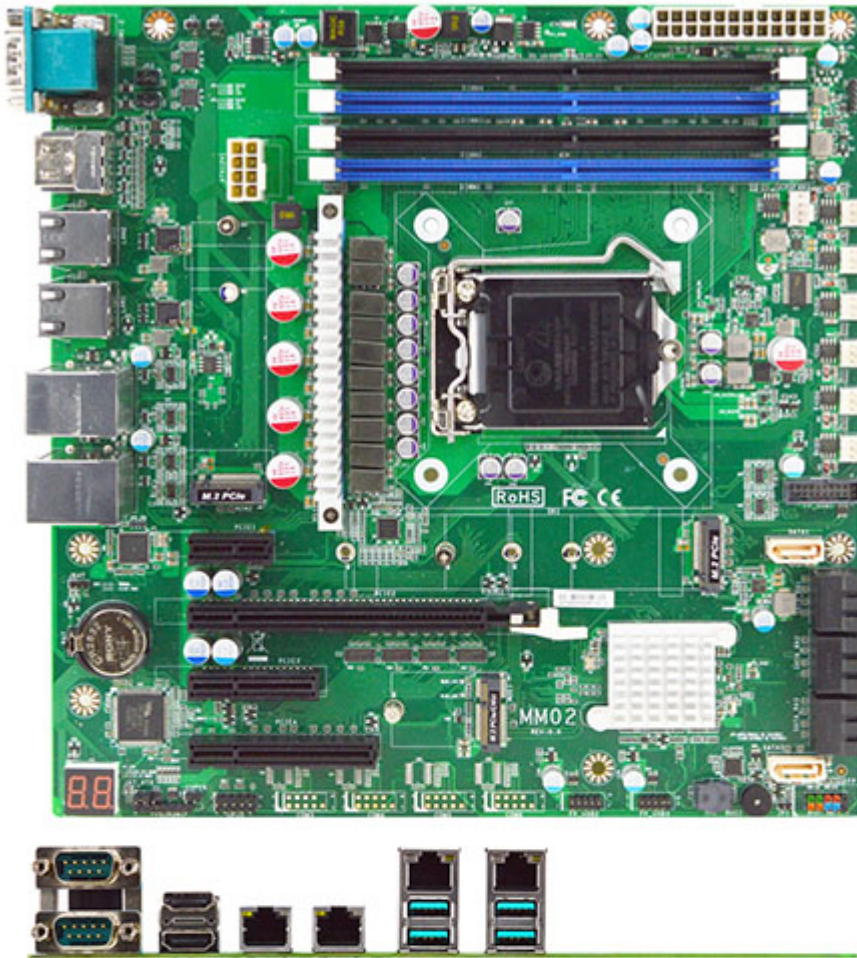




439.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Intel Comet Lake-S !
- Micro ATX !
- 4x LAN !



- Intel® LGA1200 Socket supports 10th Gen. Core Processor (Max. 95W)
- Intel® Comet Lake-S W480E Chip
- 4\* DDR4 2933/2666/2400MHz up to 128GB support ECC
- 1\* Intel® i219LM GbE, 1\* Intel® i210AT GbE, 2\* i225LM 2.5GbE
- 8\* SATAIII (6Gb/s) support RAID 0/1/5/10 & 2\* M.2 (M-key), 1\* M.2 (E-key) supports CNVi, 1\* PCIe x16, 1\* PCIe x8, 1\* PCIe x4, 1\* PCIe x1
- 2\* HDMI
- 2\* RS232, 6\* USB3.2 (Gen.2), 4\* USB2.0
- ATX Power Input

- Micro ATX Form Factor (244 \* 244 mm)

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model            | <ul style="list-style-type: none"> <li>– MM02-20</li> <li>– MM02-22 (TPM2.0))</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form Factor      | – Micro ATX (244 x 244 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Processor System | <ul style="list-style-type: none"> <li>– Intel® LGA1200 Socket supports 10th Gen. Core Processor (Max 95W)</li> <li>– Intel W480E chipset</li> <li>– AMI 128Mb Flash ROM BIOS</li> </ul>                                                                                                                                                                                                                                                                                                     |
| Expansion Slot   | <ul style="list-style-type: none"> <li>– 1* M.2 E-key, 2230 (PCIe x1 /USB2.0 interface) support CNVi</li> <li>– 1* PCIe x16</li> <li>– 1* PCIe x8 (share with PCIe x16)</li> <li>– 1* PCIe x4</li> <li>– 1* PCIe x1</li> </ul>                                                                                                                                                                                                                                                               |
| Memory           | – 4* Long DIMM DDR4 2933/2666/2400 MHz DRAM up to 128GB support ECC                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Graphics         | <ul style="list-style-type: none"> <li>– Intel® HD Graphics, shared memory</li> <li>– 2* HDMI 1.4 (Max Resolution: 4096×2160@30Hz)</li> <li>– Support Dual Displays</li> </ul>                                                                                                                                                                                                                                                                                                               |
| Ethernet         | <ul style="list-style-type: none"> <li>– 1* Intel® i219LM GbE &amp; 1* Intel® i210AT GbE</li> <li>– 2* Intel® i225LM 2.5GbE</li> </ul>                                                                                                                                                                                                                                                                                                                                                       |
| Storage          | <ul style="list-style-type: none"> <li>– 8* SATAIII (6.0Gb/s, support RAID 0/1/5/10)</li> <li>– 2* M.2 (M-key): 1* 2242/2280/22110 (PCIe x4 interface) support NVMe, 1* 2260/2280 (PCIe x2 interface)</li> </ul>                                                                                                                                                                                                                                                                             |
| Rear I/O         | <ul style="list-style-type: none"> <li>– 2* HDMI</li> <li>– 2* RJ45 (GbE)</li> <li>– 2* RJ45 (2.5GbE)</li> <li>– 4* USB3.2 (Gen.2)</li> <li>– 2* RS232</li> </ul>                                                                                                                                                                                                                                                                                                                            |
| Internal I/O     | <ul style="list-style-type: none"> <li>– 1* USB 3.2 (Gen.2)</li> <li>– 4* USB 2.0</li> <li>– 8* SATAIII (support RAID 0/1/5/10)</li> <li>– 1* M.2 M-key 2242/2280/22110 (PCIe x4 interface) support NVMe</li> <li>– 1* M.2 M-key 2260/2280 (PCIe x2 interface)</li> <li>– 1* M.2 E-key 2230 (PCIe x1 /USB2.0 interface) support CNVi</li> <li>– 1* GPIO (8-bit)</li> <li>– 1* Chassis intrusion</li> <li>– 1* SMBUS/I2C</li> <li>– 1* AT mode</li> <li>– 1* TPM2.0 (MM02-12 only)</li> </ul> |
| Watchdog Timer   | <ul style="list-style-type: none"> <li>– From Super I/O to drag RESETCON#</li> <li>– 256 segments (10 ~ 255min)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
| Power            | DC-IN 12V, AT/ATX Supported <ul style="list-style-type: none"> <li>– AT: Directly PWR on as Power input ready</li> <li>– ATX: Press Button to PWR on after Power input ready</li> </ul>                                                                                                                                                                                                                                                                                                      |
| Compliance       | – CE, FCC, RoHS, REACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Temperature      | <ul style="list-style-type: none"> <li>– Operating: 0°C ~ 60°C</li> <li>– Storage: -20°C ~ 85°C</li> <li>– Humidity: 10% ~ 90% RH @40°C (non-condensing)</li> </ul>                                                                                                                                                                                                                                                                                                                          |

|            |                     |
|------------|---------------------|
| OS Support | – Windows 10, Linux |
|------------|---------------------|