



## HPM-246

**Intel® 8/9th Gen. Core™  
i7/i5/i3/Pentium®/Celeron®/Xeon® E Processor  
ATX Motherboard With Intel® C246 Chipset(CPU  
TDP support up to 95W TDP)**

- > Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron®/Xeon® E Processor ATX Motherboard With Intel® C246 Chipset(CPU TDP support up to 95W TDP)
- > 4 x 288-pin DDR4 2400/2666MHz DIMM socket, supports up to 128GB (ECC memory supported by CPU)
- > 4 x SATA III , 6 x USB3.2 Gen1
- > 1 x PCIe Gen3 x16 slot, 1 x PCIe Gen2 x8 slot, 1 x PCIe Gen3 x4 slot, 1 x PCIe Gen3 x1 slot and 1 x PCI 3.0 x1 slot
- > 2 x USB3.2 Gen 2
- > 7 x RJ-45 (LAN 1 port shared with IPMI 2.0), 3 x DP++
- > IPMI 2.0 with AST 2500 BMC controller onboard
- > ATX Power

### + Spec

| System                           |  |
|----------------------------------|--|
| <b>Processor</b>                 | Intel® LGA1151 Socket Supports 8th/9th Generation Core™ i7/ i5/ i3 / Pentium®/Celeron®/ Xeon® E Process              |
| <b>System Chipset</b>            | ATX Motherboard With Intel® C246 Chipset   |
| <b>System Memory</b>             | 4 x 288-pin DDR4 2666MHz DIMM supports up to 128GB (ECC memory supported by CPU)                                     |
| <b>I/O Chip</b>                  | Nuvoton® NCT6106D  |
| <b>BIOS</b>                      | AMI uEFI BIOS, 256Mbit SPI Flash ROM   |
| <b>Watchdog Timer</b>            | H/W Reset, 5~255 seconds/5~255 minutes   |
| <b>H/W Status Monitor</b>        | CPU temperature monitoring, Voltages monitoring, CPU fan speed control   |
| <b>IPMI</b>                      | IPMI 2.0 with AST 2500 BMC controller onboard  |
| <b>TPM</b>                       | Onboard Infineon SLB9665 supports TPM 2.0  |
| <b>Board</b>                     | ATX Board  |
| Expansion                        |  |
| <b>Expansion</b>                 | 1 x PCI 3.0<br>1 x PCIe Gen3 x 16 slot<br>1 x PCIe Gen2 x 8 slot<br>1 x PCIe Gen3 x 4 slot<br>1 x PCIe Gen3 x 1 slot |
| I/O                              |  |
| <b>USB</b>                       | Internal 6 x USB 3.2 Gen1<br>External 2 x USB 3.2 Gen2   |
| <b>SATA</b>                      | 4 x SATA III   |
| <b>COM Port</b>                  | 2 x RS232  |
| Display                          |  |
| <b>Chipset</b>                   | Intel® 8th/9th Generation CPU integrated   |
| <b>Resolution</b>                | DP: 4096 x 2304 @ 60Hz HDMI : 4096 x 2160 @ 30Hz   |
| <b>Multiple Display</b>          | Triple Display   |
| <b>Digital Display Interface</b> | 3 x DP++   |
| Audio                            |  |
| <b>Chipset</b>                   | Realtek ALC892   |
| Ethernet                         |  |
| <b>Chipset</b>                   | 7 x Intel®I210AT Giga-bit Ethernet   |
| <b>LAN Port</b>                  | 7 x RJ-45 (LAN 1 port shared with IPMI 2.0)  |
| Mechanical & Environmental       |  |
| <b>Power Requirement</b>         | +12V/+5V/5VSB/+3.3V/-12V   |
| <b>ACPI</b>                      | Single power ATX Support S0, S5  |
| <b>Power Type</b>                | ATX  |
| <b>Operating Temperature</b>     | 0~60°C (32~140°F) for M/B level  |
| <b>Storage Temperature</b>       | -25 ~ 70°C   |
| <b>Operating Humidity</b>        | 40%~95% relative humidity, non-condensing  |
| <b>Dimension (L x W)</b>         | 12" x 9.6" (304.8mm x 243.84mm)  |
| <b>Weight</b>                    | 1.45lbs (0.7 kg)   |
| Power Requirement                |  |
| <b>Power Requirement</b>         | 1 x Std. 24 pin ATX Connector 1 x 8 Pin SSI 12V Connector  |
| <b>ACPI</b>                      | Support S0, S5   |

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