



## HPM-246UA

Intel® 8/9th Gen. Core™

i7/i5/i3/Pentium®/Celeron®/Xeon® E processor

ATX Server Board with Intel® C246 chipset and

IPMI 2.0

Processor supports up to 95W TDP

- > Intel LGA1151 Socket supports 8th/9th Gen. Core i7/i5/i3/Pentium/Celeron/Xeon E Processors
- > Intel C246 Chipset
- > 4 x DDR4 2666MHz ECC and Non-ECC DIMM support up to 128GB (ECC memory supported by specific CPU SKUs)
- > TPM 2.0 onboard
- > IPMI 2.0 with AST 2500 BMC controller onboard
- > 7 x Intel I210AT Giga-bit Ethernet
- > 4 x SATA III
- > 2 x internal RS232 ports
- > 2 x USB 3.2 Gen2 ports at Edge I/O
- > 6 x internal USB 3.2 Gen1
- > 12" x 9.6" (304.8mm x 243.84mm), PCB thickness is 2.0mm.

### + Spec

#### System Information

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| Processor               | Intel LGA1151 socket supports 8th/9th Gen. Core i7/i5/i3/Pentium/Celeron/Xeon E Processors(Max. TDP at 95W) |
| Platform Controller Hub | Intel C246 Chipset                                                                                          |
| System Memory           | 4 x DDR4 2666MHz ECC and Non-ECC DIMM support up to 128GB (ECC memory supported by specific CPU SKUs)       |
| I/O Chipset             | Nuvoton NCT6106D                                                                                            |
| BIOS Information        | AMI UEFI BIOS                                                                                               |
| Watchdog Timer          | System Reset Event. 5~255 seconds/5~255 minutes                                                             |
| H/W Status Monitor      | CPU temperature, Fan speed and voltage monitoring, Fan speed control, and Case Open detection               |
| TPM                     | TPM 2.0 onboard                                                                                             |
| iAMT                    | IPMI 2.0 with AST 2500 BMC controller onboard                                                               |

#### -Rear I/O-

|          |                                 |
|----------|---------------------------------|
| USB Port | 2 x USB 3.2 Gen2 ports          |
| DP       | 3 x DP++ ports                  |
| RJ-45    | 7 x RJ45 (LAN1 Share IPMI Port) |

#### -Display-

|                 |                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| Graphic Chipset | Intel 8th/9th Generation CPU integrated<br>AST 2500 BMC controller                                                 |
| Resolution      | 3 x DP++ ports<br>DP: 4096 x 2304 @ 60Hz HDMI: 4096 x 2160 @ 30Hz<br>1 x VGA port<br>VGA: 1920 x 1200 @ 60Hz 32bpp |

#### Expansion

|           |                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------|
| Expansion | 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 |
|-----------|----------------------------------------------------------------------------------------------------------------------|

#### Storage

|     |    |
|-----|----|
| M.2 | NA |
|-----|----|

#### I/O

|              |                                                            |
|--------------|------------------------------------------------------------|
| USB Port     | 6 x internal USB 3.2 Gen1 ports                            |
| SATA         | 4 x SATA III                                               |
| Serial       | 2 x internal RS232 ports                                   |
| VGA          | 1 x internal VGA port                                      |
| CMOS Battery | 1 x Horizontal Socket Type CMOS Battery Holder with CR2450 |

#### Ethernet

|             |                                    |
|-------------|------------------------------------|
| LAN Chipset | 7 x Intel I210AT Giga-bit Ethernet |
| LAN Port    | 7 x RJ45 (LAN1 Share IPMI Port)    |

#### Mechanical & Environmental

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Operating Temperature | 0 ~ 60°C (32 ~ 140°F)                                        |
| Storage Temperature   | -25 ~ 70°C                                                   |
| Operating Humidity    | 40°C @95% Relative Humidity, Non-condensing                  |
| Weight                | 0.7Kg                                                        |
| Power Connector       | 1 x Std. 24 Pin ATX connector<br>1 x 8 Pin SSI 12V connector |
| Dimension (L x W)     | 12" x 9.6" (304.8mm x 243.84mm), PCB thickness is 2.0mm      |

#### Software Support

|                |                                                                         |
|----------------|-------------------------------------------------------------------------|
| OS Information | Windows 10 IOT Enterprise<br>Windows Server 2016<br>Windows Server 2019 |
|----------------|-------------------------------------------------------------------------|

#### Ordering Information



**Ordering Information**

HPM-246UAA-A1R  
ATX LGA1151 Intel 8th/9th Gen. C246 w/4xDDR4/1xPCIex16/7x1GbE/8xUSB3.2/4xSATA3.0  
HPM-246UAL-A1R  
ATX LGA1151 Intel 8th/9th Gen. C246 Lite version w/4xDDR4/1xPCIex16/3x1GbE/8xUSB3.2/4xSATA3.0

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