



## HPM-246UA

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 1 x PCIe Gen3 x 16 slot 1 x PCIe Gen2 x 8 slot 1 x PCIe Gen3 x 4 slot 1 x PCIe Gen3 x 1 slot
I/O	
<b>USB</b>	Internal 6 x USB 3.2 Gen1 External 2 x USB 3.2 Gen2
<b>SATA</b>	4 x SATA III
<b>COM Port</b>	2 x RS232
<b>VGA</b>	VGA connector (JVGA1) from BMC output
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), PCB thickness is 2.0mm.
<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



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<b>Power Type</b>	ATX Mode
<b>Ordering Information</b>	
<b>Ordering Information</b>	HPM-246UAA-A1R Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron®/Xeon® E Processor with Intel® C246 Chipset(CPU TDP support up to 95W TDP) HPM-246UAL-A1R Lite version of HPM-246, support 3 LAN ports

