



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 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 (CS)

Processor	Intel LGA1151 Socket supports 8th/9th Gen. Core i7/i5/i3/Pentium/Celeron/Xeon E Processors
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

Edge I/O (Rear) (CS)

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

Display (CS)

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

Expansion

Expansion	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
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Storage

M.2	NA
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I/O

USB Port	6 x internal USB 3.2 Gen1
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%~95% relative humidity, non-condensing
Weight	0.7Kg
Power Connector	1 x Std. 24 Pin ATX connector 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 Windows Server 2016 Windows Server 2019
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