



HPM-621DE

Intel® dual 2nd Gen. Xeon® Scalable Processors
EATX Server Board With Intel® C621 Chipset,
IPMI2.0

Processor supports up to 150W TDP

- > Dual Intel FCLGA3647 Sockets support 1st and 2nd Gen. Intel Xeon Scalable Processors (Max. TDP at 150W Each)
- > Intel C621 Chipset
- > 12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM Up to 1.5TB
- > TPM 2.0 onboard
- > IPMI 2.0 with AST 2500 BMC controller onboard
- > 4 x Intel I210AT Giga-bit Ethernet
- > 10 x SATA III Support RAID 0,1,5,10
- > 2 x internal RS232 ports
- > 4 x USB 3.2 Gen1 ports at Edge I/O
- > 2 x internal USB 2.0 Ports
- > 2 x internal USB 3.2 Gen1 Ports
- > 1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280 form factor
- > 12" x 13" (304.8mm x 330.2mm), PCB thickness is 2.0mm

+ Spec

System Information

Processor	Dual Intel FCLGA3647 Sockets support 1st and 2nd Gen. Intel Xeon Scalable Processors (Max. TDP at 150W Each)
Platform Controller Hub	Intel C621 Chipset
System Memory	12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 1.5TB
BIOS Information	AMI UEFI BIOS
Watchdog Timer	System Reset Event. 0 ~ 6553 seconds
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	4 x USB 3.2 Gen1 ports
RJ-45	4 x RJ45 (LAN1 share IPMI port)

-Display-

Graphic Chipset	AST 2500 BMC controller
Resolution	1 x VGA port VGA: 1920 x 1200 @ 60Hz 32bpp

Expansion

Expansion	4 x PCIe x16 slots, 2 x PCIe x8 slots, 1 x PCI 3.0 slot Slot 1, PCIe 3.0 x16 from CPU1 Slot 2, PCI 3.0 Slot 3, PCIe 3.0 x16 from CPU1 Slot 4, PCIe 3.0 x16 from CPU2 Slot 5, PCIe 3.0 x16 from CPU2 Slot 6, PCIe 3.0 x8 from CPU1 Slot 7, PCIe 3.0 x8 from CPU1 (Slot 7 is the slot closest to CPU)
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Storage

M.2	1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280 form factor
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I/O

USB Port	2 x internal USB 2.0 ports 2 x internal USB 3.2 Gen1 ports
SATA	10 x SATA III Support RAID 0,1,5,10
Serial	2 x internal RS232 ports
VGA	1 x internal VGA port
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder with CR2450
Other	4 x OCuLink ports from CPU 2 for U.2 SSD

Ethernet

LAN Chipset	4 x Intel I210AT Giga-bit Ethernet
LAN Port	4 x RJ45 (LAN1 Share IPMI Port)

Mechanical & Environmental

Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 °C ~ 85 °C
Operating Humidity	40°C @95% Relative Humidity, Non-condensing
Weight	1.8Kg
Power Connector	1 x Std. 24 Pin ATX connector 2 x 8 Pin SSI 12V connector
Dimension (L x W)	12" x 13" (304.8mm x 330.2mm), PCB thickness is 2.0mm

Software Support

OS Information	Windows 10 IOT Enterprise Windows Server 2016 Windows Server 2019
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Ordering Information

Ordering Information	HPM-621DEA-A1R EATX 2xLGA3647 Intel 1st/2nd Gen. C621 w/12xDDR4/4xPCIEx16/4x1GbE/6xUSB3.1/10xSATA3.0
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