



## HPM-621DE

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

- > 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 768GB
- > 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 (CS)	
<b>Processor</b>	Dual Intel FCLGA3647 Sockets support 1st and 2nd Gen. Intel Xeon Scalable Processors (Max. TDP at 150W Each)
<b>Platform Controller Hub</b>	Intel C621 Chipset
<b>System Memory</b>	12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM Up to 768GB
<b>BIOS Information</b>	AMI UEFI BIOS
<b>Watchdog Timer</b>	System Reset Event. 0 ~ 6553 seconds
<b>H/W Status Monitor</b>	CPU temperature, Fan speed and voltage monitoring, Fan speed control, and Case Open detection
<b>TPM</b>	TPM 2.0 onboard
<b>iAMT</b>	IPMI 2.0 with AST 2500 BMC controller onboard
Edge I/O (Rear) (CS)	
<b>USB Port</b>	4 x USB 3.2 Gen1 ports
<b>RJ-45</b>	4 x RJ45 (LAN1 share IPMI port)
Display (CS)	
<b>Graphic Chipset</b>	AST 2500 BMC controller
<b>Resolution</b>	1 x VGA port VGA: 1920 x 1200 @ 60Hz 32bpp
Expansion	
<b>Expansion</b>	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)
Storage	
<b>M.2</b>	1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280 form factor
I/O	
<b>USB Port</b>	2 x internal USB 2.0 Ports 2 x internal USB 3.2 Gen1 Ports
<b>SATA</b>	10 x SATA III Support RAID 0,1,5,10
<b>Serial</b>	2 x internal RS232 ports
<b>VGA</b>	1 x internal VGA port
<b>CMOS Battery</b>	1 x Horizontal Socket Type CMOS Battery Holder with CR2450
<b>Other</b>	4 x OCuLink ports from CPU 2 for U.2 SSD
Ethernet	
<b>LAN Chipset</b>	4 x Intel I210AT Giga-bit Ethernet
<b>LAN Port</b>	4 x RJ45 (LAN1 Share IPMI Port)
Mechanical & Environmental	
<b>Operating Temperature</b>	0 ~ 60°C (32 ~ 140°F)
<b>Storage Temperature</b>	-40 °C ~ 85 °C
<b>Operating Humidity</b>	40%~95% relative humidity, non-condensing
<b>Weight</b>	1.8Kg
<b>Power Connector</b>	1 x Std. 24 Pin ATX connector 2 x 8 Pin SSI 12V connector
<b>Dimension (L x W)</b>	12" x 13" (304.8mm x 330.2mm), PCB thickness is 2.0mm
Software Support	
<b>OS Information</b>	Windows 10 IOT Enterprise Windows Server 2016 Windows Server 2019
Ordering Information	
<b>Ordering Information</b>	HPM-621DEA-A1R EATX 2xLGA3647 Intel 1st/2nd Gen. C621 w/12xDDR4/4xPClex16/4x1GbE/6xUSB3.1/10xSATA3.0