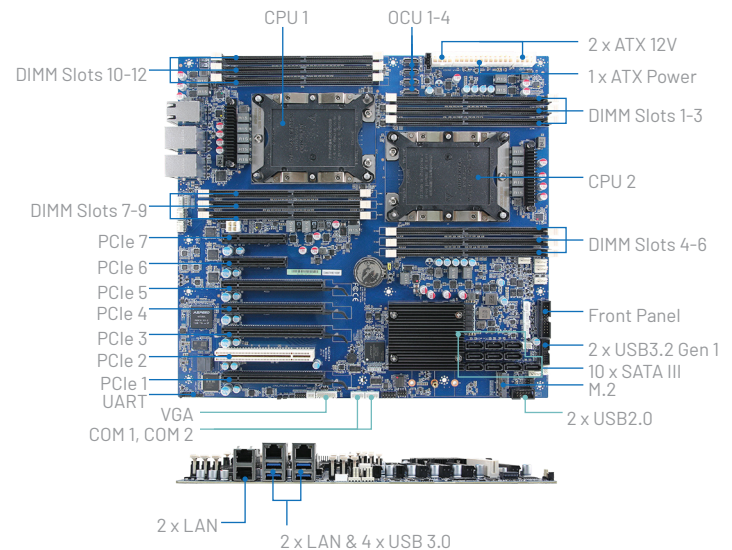


Features

- Supports up to 3 x Full height and double-wide GPU cards
- 1 x PCI 3.0 slot supports legacy motion control card and M2M communication card
- Lifetime RTC Battery Capacity
- Highest Reliability (50K MTBF, 60°C Temp, 15u Gold Connectors)
- 2.0mm PCB thickness to improve robustness and signal integrity
- Extended Lifecycle (at least 5 years plus)
- Revision Controlled
- 2 x CPU Sockets: Supports Dual 2nd Gen. Intel® Xeon® Scalable Processors /Intel® Xeon® Scalable Processors up to 150W TDP
- 12 x DDR4 DIMM Slots: support 12 x DDR4 2933/2666/2400/2133 RDIMM/LRDIMM up to 1.5TB
- 4 x LAN Ports: 4 x 1GbE Ethernet ports with Lan 1 shared with IPMI management port. Supports cameras and internet connection without compromising performance
- 4 x OCuLink storage expansion ports and 10 SATA III
- USB3.2 (20Gbps): 2 x internal USB 3.2 Gen1 ports and 4 x external USB 3.2 Gen1 ports
- Embedded IPMI 2.0 Support
- Server Class Expansion slots:
 - 4 x PCIe 3.0 x16 slot, 2 x PCIe 3.0 x8 slot
 - 1 x PCI 3.0 slot
 - 1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280



Specifications

System	
CPU	2 x Intel® FCLGA3647 Sockets support dual 2nd Gen. Intel® Xeon® Scalable Processors (Max. TDP at 150W)
System Chipset	Intel® C621 Chipset
System Memory	12 x DDR4 2933/ 2666/ 2400/ 2133 RDIMM/ LRDIMM Up to 1.5TB
BIOS	AMI uEFI BIOS
Watchdog Timer	System Reset Event. 0 ~ 6553 Seconds
H/W Status Monitor	CPU Temperature and Voltage Monitoring, CPU Fan Speed Control, Case Open Detection
IPMI	IPMI 2.0 with AST 2500 BMC Controller Onboard
TPM	Onboard TPM 2.0
Supported OS	Windows : Windows 10 IOT Enterprise, Windows Server 2016, Windows Server 2019
Expansion Slots	
PCI Express	4 x PCIe 3.0 x16 slots, 2 x PCIe 3.0 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 1 x M.2 M-Key PCIe 3.0 x4 NVMe SSD, 2242/2260/2280
Display	
Chipset	AST 2500 BMC Controller
Resolution	VGA: 1920 x 1200 @ 60Hz 32bpp

Ethernet	
Chipset	4 x Intel® I210-AT Gigabit Ethernet Controller
LAN	4 x RJ45 (LAN1 Share IPMI Port)
External I/O	
USB	4 x USB 3.2 Gen1 Ports
LAN	4 x RJ45 (LAN1 share IPMI port)
Internal I/O	
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder with CR2450
USB	2 x USB 2.0 Ports, 2 x USB 3.2 Gen1 Ports
SATA	10 x SATA III Support RAID 0,1,5,10
COM	2 x RS232
OCuLink	4 x OCuLink Ports from CPU 2 for U.2 SSD

Mechanical & Environment

Power Requirement	1 x Std. 24 Pin ATX Connector 2 x 8 Pin SSI 12V Connectors
ACPI	Yes
RAID	Intel® C621 software RAID 0,1,5,10
Power Type	ATX
Operating Temp	0 ~ 60°C (32 ~ 140°F)
Storage Temp	-40 °C ~ 85 °C (-40 ~ 185°F)
Operating Humidity	40°C ~ 95% non-condensing
Form Factor	Extended ATX Board (EATX)
Dimensions	12" x 13" (305mm x 330mm), PCB thickness is 2.0mm
Weight	3.97 lbs/ 1.8 kg

Ordering Info

HPM-621DE	Intel® C621 HPC Motherboard supports Dual Intel® Xeon® Processors, 1x I/O Shield
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* All product specifications and images are subject to change without notice. Last update: 2021/12/21

