



HPM-ERSDE

Dual 5th Generation Intel® Xeon® Scalable Processor Proprietary Server Board with Intel® C741 Chipset and IPMI2.0
Processor supports up to 270W TDP

- > Dual Intel LGA4677 Sockets support 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W each)
- > Intel® C741 Chipset
- > 12 x DDR5 5600 MHz RDIMM up to 3TB
- > TPM 2.0 onboard
- > IPMI 2.0 with AST 2600 BMC controller onboard
- > 1 x Intel I210AT Giga-bit Ethernet
- > 1 x Intel I226LM 2.5Giga-bit Ethernet
- > 1 x Intel X550-AT2 10Giga-bit Ethernet
- > 5 x SATA III support RAID 0,1,5,10
- > 1 x Internal RS232 port
- > 6 x USB 3.2 Gen1 ports at Edge I/O
- > 2 x Internal USB 3.2 Gen1 ports & 2x USB 2.0 type A receptacle
- > 1 x M.2 M-Key PCIe 5.0 x4 NVMe SSD, 2242/2260/2280/22110 form factor
- > 12" x 16.452" (304.8mm x 417.88mm), PCB thickness is 2.86mm

+ Spec

System Information	
Processor	Dual Intel LGA4677 Sockets support 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W each)
Platform Controller Hub	Intel® C741 Chipset
System Memory	12 x DDR5 5600 MHz RDIMM up to 3TB
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 Case open detection
TPM	TPM 2.0 onboard
iAMT	IPMI 2.0 with AST 2600 BMC controller onboard
-Rear I/O-	
USB Port	6 x USB 3.2 Gen1 ports
COM Port	1 x RS232 port
VGA	1 x VGA port
RJ-45	5 x RJ45 MGMT port for dedicated IPMI access only LAN1 port for 1GbE shared with IPMI access LAN2 port for 2.5GbE LAN3 and 4 ports for 10GbE
-Display-	
Graphic Chipset	AST2600 BMC controller
Resolution	1 x VGA port VGA: 1920 x 1200 @ 60Hz 32bpp
Expansion	
Expansion	7 x PCIe Gen5 x16 slots Slot 1, PCIe 5.0 x16 from 2nd CPU Slot 2, PCIe 5.0 x16 from 1st CPU Slot 3, PCIe 5.0 x16 from 2nd CPU Slot 4, PCIe 5.0 x16 from 1st CPU Slot 5, PCIe 5.0 x16 from 2nd CPU Slot 6, PCIe 5.0 x16 from 1st CPU Slot 7, PCIe 5.0 x16 from 2nd CPU (Slot 7 is the slot closest to CPU)
Storage	
M.2	1 x M.2 M-Key PCIe 5.0 x4 NVMe SSD, 2242/2260/2280/22110 form factor
I/O	
USB Port	2 x Internal USB 3.2 Gen1 ports 2 x Internal USB 2.0 type A receptacle 2 x Internal USB 2.0 ports
SATA	5 x SATA III (Note: SATA 1~4 support RAID 0,1,5,10) (1 x Mini-SAS HD 4i (from PCH for 4 xSATA or 1 x4 NVMe interface) & 1 x 7pin SATA connector)
Serial	1 x Internal RS232 port
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder with CR2450
Other	3 x Slim SAS 8i (SFF-8654) connectors (from 1st CPU)
Ethernet	
LAN Chipset	1 x Intel I210AT Giga-bit Ethernet 1 x Intel I226LM 2.5Giga-bit Ethernet 1 x Intel X550-AT2 10Giga-bit Ethernet
LAN Port	5 x RJ45 MGMT port for dedicated IPMI access only LAN1 port for 1GbE shared with IPMI access LAN2 port for 2.5GbE LAN3 and 4 ports for 10GbE
Mechanical & Environmental	



Operating Temperature	0 ~ 50°C (32 ~ 122°F)to support up to 250W TDP CPU 0 ~ 40°C (32 ~ 104°F)to support up to 270W TDP CPU
Storage Temperature	-40 ~ 85°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	2.2 Kgs
Power Connector	1 x Std. 24 Pin ATX connector 3 x 8 Pin SSI 12V connectors
Dimension (L x W)	12" x 16.452" (304.8mm x417.88mm), PCB thickness is 2.86mm
Software Support	
OS Information	Windows 10 IoT Enterprise LTSC 2021 Windows 11 Windows Server 2019 Windows Server 2022 Ubuntu 21.1, 22.04 LTS or later Red Hat Enterprise Linux (RHEL) 8.2 and later
Ordering Information	
Ordering Information	HPM-ERSDEA-A1R EATX 2xLGA4677 Intel 5th Gen.C741/X550 12xDDR5/4xPClex16/2x10GbE/1x1GbE/1x2.5GbE/8xUSB3/5xSATA3 HPM-ERSDEL-A1R EATX 2xLGA4677 Intel 5th Gen.C741 12xDDR5/4xPClex16/1x1GbE/1x2.5GbE/8xUSB3/5xSATA3