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

Product Features

- Dual Intel LGA4677 Sockets support 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)
- 12 x DDR5 5600 MHz RDIMM up to 3TB
- IPMI 2.0 with AST 2600 BMC controller onboard.
- 1 x Intel I226LM 2.5Giga-bit Ethernet
- 5 x SATA III Support RAID 0,1,5,10
- 6 x USB 3.2 Gen1 ports at Edge I/O
- 1 x M.2 M-Key PCIe 5.0 x4 NVMe SSD,2242/2260/2280/22110 form factor

- Intel® C741 Chipset
- TPM 2.0 onboard
- 1 x Intel I210AT 1Giga-bit Ethernet
- 1 x Intel X550-AT2 10Giga-bit Ethernet
- 1 x RS232 port
- 2 x Internal USB 3.2 Gen1 port & 2 x USB 2.0 type A receptacle & 2 x internal USB 2.0 ports
- 12" x 16.452" (304.8mm x 417.88mm), PCB thickness is 2.86mm

Specification

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
Watchdog Timer	System reset event 0 ~ 6553 seconds
BIOS	AMI UEFI BIOS
H/W Status Monitor	CPU temperature Fan speed and voltage monitoring Fan speed control Case open detection
TPM	TPM 2.0 onboard
IPMI	IPMI 2.0 with AST 2600 BMC controller onboard

Rear I/O

USB	6 x USB 3.2 Gen1 ports
COM Port	1 x RS232 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
VGA	1 x VGA port

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	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
Other	3 x Slim SAS 8i (SFF-8654) connectors (from 1st CPU)
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder with CR2450

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 Temp.	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 Temp.	-40 ~ 85°C

Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing

Weight	2.2KG

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	Windows 10 IoT Enterprise LTSC 2021
	Windows 11
	Windows Server 2019
	Windows Server 2022
	Ubuntu 21.10, 22.04 LTS or later
	Red Hat Enterprise Linux (RHEL) 8.2 and later

Ordering Information

Ordering Information	HPM-ERSDEA-A1R
	EATX 1xLGA4677 Intel 5th Gen.C741/X550
	12xDDR5/7xPCIex16/2x10GbE/1x1GbE/1x2.5GbE/8xUSB3/5xSATA3
	HPM-ERSDEL-A1R
	EATX 1xLGA4677 Intel 5th Gen.C741
	12xDDR5/7xPCIex16/1x1GbE/1x2.5GbE/8xUSB3/5xSATA3