X13SEVR-SP13F

🖶 Print

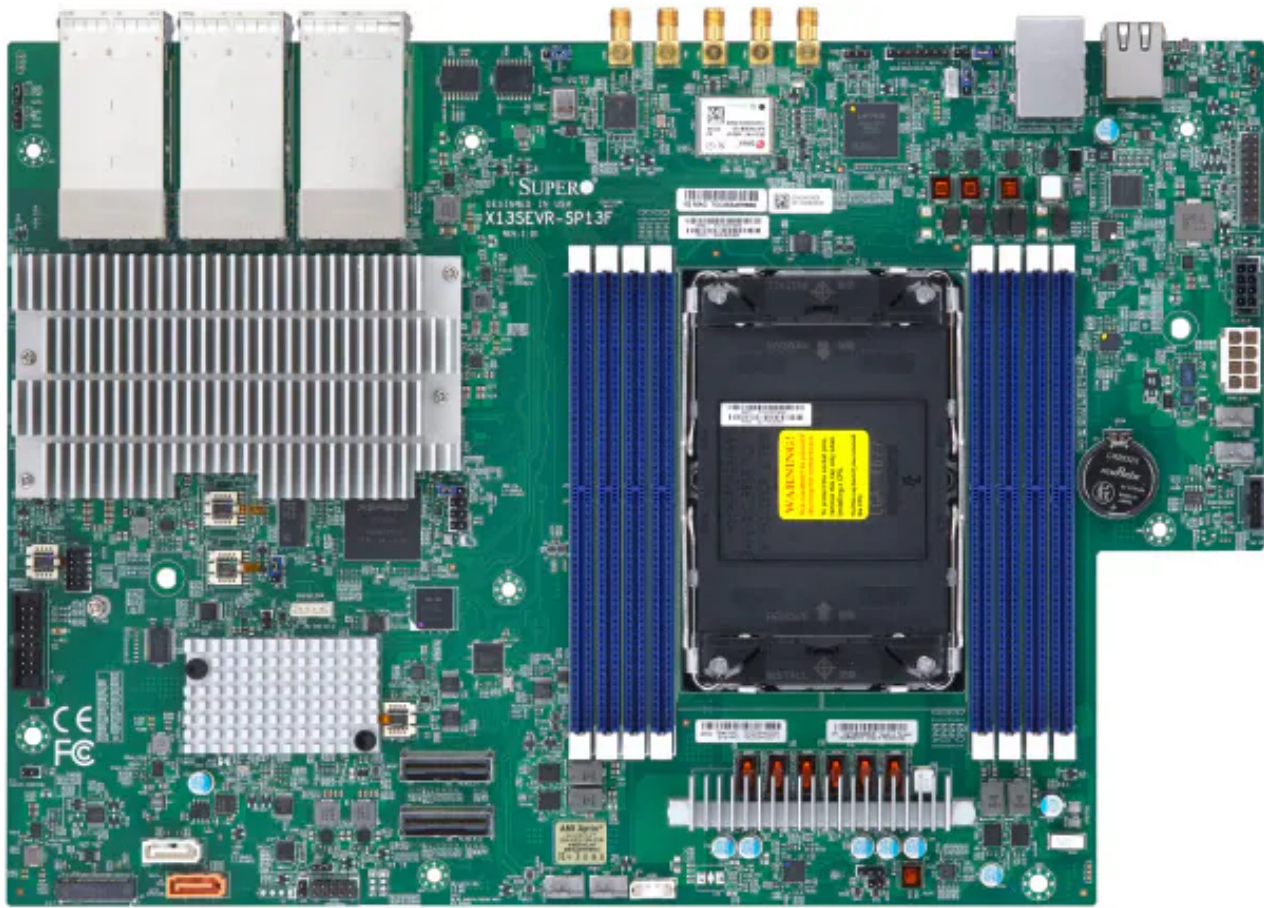**12x 25GbE**
IEEE1588 v2 & SyncE support
Short Depth

Key Features

1. 5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 225W TDP
2. Intel C741® Chipset
3. Up to 2TB ECC RDIMM/RDIMM 3DS, DDR5-5600MT/s in 8 DIMM slots
4. 2 PCIe 5.0 x8 MCIO connector, support riser card: RSC-S-68G5 for FHHL PCIe card
5. IEEE1588 v2 & Synchronous Ethernet support
   DPLL/OCXO design
   Up to 8 hours hold-over
6. 12 SFP28 for 25GbE Ethernet and 1 IPMI shared LAN with Intel® Ethernet Controller E810-CAM1
   1 RJ45 for Gigabit Ethernet and IPMI shared LAN with Intel® Ethernet Controller I210-AT
   Note that only port10 support E810 NC-SI function
7. **M.2 Interface:** 1 PCIe 4.0 x4, **M.2 Form Factor:** 2280
8. 1 COM header;1 VGA header; 2 USB 3.2 Gen1 Ports
9. 4 SMA for 1PPS & 10MHz (two Input two Output)
   1x SMA for GNSS input with onboard GNSS module
   ...

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Optimized Servers

[SYS-211E-FRDN1P](#)   [SYS-211E-FRN13P](#)

Specifications	Resources	Parts List

Product SKUs

MBD-X13SEVR-SP13F

Physical Stats

Form Factor	Proprietary
Dimension	13.94" x 9.6" (35.41cm x 24.38cm)

Processor

CPU	[5th Gen Intel® Xeon®](#) / [4th Gen Intel® Xeon® Scalable processors](#) Single Socket E (LGA-4677) supported, CPU TDP supports Up to 225W TDP
Core	Up to 32 cores

System Memory

Memory Capacity	8 DIMM slots Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s
Memory Type	5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 5600MT/s(1DPC)
DIMM Sizes	16GB, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB, 256GB
Memory Voltage	1.1V
Error Detection	Corrects single-bit errors

On-Board Devices

Chipset	Intel® C741
SATA	Intel® C741 controller for 2 SATA3 ports; RAID 0,1
IPMI	ASPEED AST2600 BMC
Network Controllers	Single LAN with Intel® i210 Gigabit Ethernet Controller 12 LAN with Intel® Ethernet Controller E810-CAM1

Input / Output

SATA	2 SATA3 port(s)
USB	2 USB 3.2 Gen1 port(s) (2 type A)
Video Output	1 Header port(s)
Serial Port	1 COM Port(s) (1 header)
TPM	1 TPM Header & Chip both
Others	1 Dry contact 5 SMA 1PPS & GNSS with 1 for GNSS input

Expansion Slots

PCIe	2 PCIe 5.0 x8 MCIO connector, For RSC-S-68G5 to support FHHL PCIe Card
M.2	M.2 Interface: 1 PCIe 4.0 x4 Form Factor: 2280 Key: M-Key

System BIOS

BIOS Type	32MB AMI UEFI
BIOS Features	ACPI 6.5 SMBIOS 3.6 UEFI 2.9 Plug and Play (PnP) PCI FW 3.3

Management

Software	[SuperCloud Composer](#), [Supermicro Server Manager (SSM)](#), [Supermicro Power Manager (SPM)](#), [Supermicro Update Manager (SUM)](#), [Supermicro SuperDoctor® 5 (SD5)](#), [Super Diagnostics Offline (SDO)](#), [Supermicro Thin-Agent Service (TAS)](#), [SuperServer Automation Assistant (SAA) New!](#), [Plug-ins for 3rd Party Software](#), [IPMI Utilities](#)
System Management Software	IPMI 2.0
Power Configurations	ACPI Power Management, Power-on mode control for AC power loss recovery

PC Health Monitoring

Voltage	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 4 -fan status, +5V standby, +5V, +3.3V, +12V, +3.3V standby
LED	UID/Remote UID Power LED BMC/IPMI Heartbeat LED Power fail / Fan fail / Overheat LED Indication
Temperature	CPU thermal trip support PECI
FAN	4x 4-pin fan headers (up to 4 fans) Fan speed control 4 fans with tachometer monitoring
Other Features	WOL, M.2 NGFF connector, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management

Operating Environment

Operating Temperature Range	0°C - 55°C (32°F - 131°F)
Non-Operating Temperature Range	-40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	8% - 90% (non-condensing)
Non Operating Relative Humidity Range	5% - 95% (non-condensing)

Certain products may not be available in your region

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