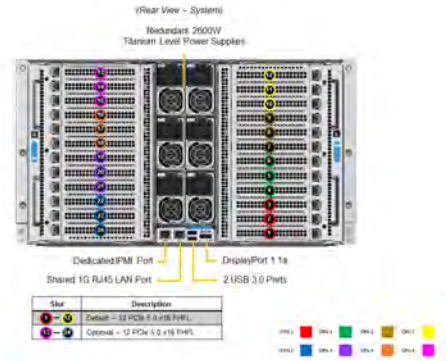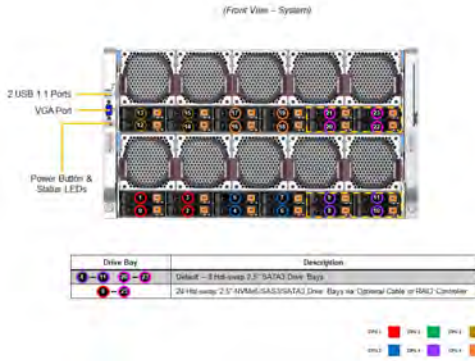# MP SuperServer SYS-681E-TR

Key Applications

In-Memory Database, Virtualization, ERP, CRM, Research Lab/National Lab, Scale -up HPC,

Key Features

- Octa Socket E (LGA-4677) 4th Generation Intel® Xeon® Scalable processors;
- 128 DIMM Slots; Up to 32TB DDR5-4800MHz ECC RDIMM/RDIMM-3DS;
- Optional PCIe configurations up to 24 PCIe slots with support for 12 double-width GPU/Accerlator cards;
- 24x 2.5" Hot-swap NVMe/SAS3/SATA3 drive bays ; 2x internal M.2 NVMe/SATA; Optional RAID support via storage add-on card;
- 10 heavy duty fans w/ optimal fan speed control;

Form Factor	6U Rackmount Enclosure: 449 x 265 x 841mm (17.68" x 10.4" x 33.1") Package: 720 x 922 x 1080mm (28.34" x 36.3" x 42.5")
Processor	4th Gen Intel® Xeon® Scalable processors Octal Socket LGA-4677 (Socket E) supported 4 UPI up to 16GT/s (Supports 205W - 350W TDP CPUs (Aircooled), CPUs with high TDP (air cooled) only supported under specific conditions. Contact Technical Support for details)
System Memory	128 DIMM slots Up to 32TB ECC RDIMM, DDR5-4800MHz
Drive Bays	24x 2.5" hot-swap NVMe/SAS3/SATA3 drive bays (24x 2.5" NVMe hybrid)(Default 8x SATA3 drive bays. NVMe, SATA, or SAS support requires additional parts. Please see the Optional Parts list.) 2 M.2 NVMe OR 2 M.2 SATA3
Expansion Slots	12 PCIe 5.0 x16 FHFL slot(s) 12 PCIe 5.0 x16 FHFL optional slot(s) 2 PCIe 5.0 x16 LP internal optional slot(s)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 1x 1GbE BaseT IPMI: Support for Intelligent Platform Management Interface v.2.0 　　IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 Dedicated IPMI LAN port 　　1x 1GbE RJ45 USB: 2 USB 3.0 port(s) (2 rear) 　　2 USB 1.1 port(s) (2 front) Video: 1 VGA port(s) 　　1 DisplayPort port(s)

System Cooling	10x 8cm heavy duty fan(s)

Power Supply

1U 2600W redundant power supply
Dimension (W x H x L): 73.5 x 40 x 265 mm
Output Type: 25 Pairs Gold Finger Connector

System BIOS

BIOS Type: AMI 32MB SPI Flash EEPROM

Management

SuperDoctor® 5; Watch Dog; NMI; SUM; SPM; Intel® Node Manager; SSM; IPMI 2.0

PC Health Monitoring

CPU: Monitors for CPU Cores, Chipset Voltages, Memory
    4+1 Phase-switching voltage regulator
FAN: Fans with tachometer monitoring
    Status monitor for speed control
    Pulse Width Modulated (PWM) fan connectors
Temperature: Monitoring for CPU and chassis environment
    Thermal Control for fan connectors

Dimensions and Weight

Height: 10.4" (265 mm)
Width: 17.68" (449 mm)
Depth: 33.1" (841 mm)
Gross Weight: 242.5 lbs (110 kg)
Net Weight: 176.37 lbs (80 kg)
Packaging: 36.3" (H) x 28.34" (W) x 42.5" (D)
Available Color: Black

Operating Environment

ROHS: RoHS Compliant
Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity: 8% to 90% (Non-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Motherboard

Super X13OEI-CPU

Chassis

CSE-618TS-R5K26P