IoT SuperServer SYS-111E-FDWTR-OS1

1U Short-depth front I/O System with 2x 10G ports, 2x 2.5" drive bays, DC redundant PSU, and OpenBMC support

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Key Applications

Multi-Access Edge Computing, Flex-RAN, Open-RAN vBBU, Artificial Intelligence (AI) on Edge, DU of 5G Application, Satellite Communication, Support Supermicro Openbmc,



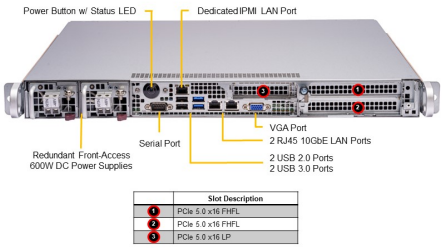
Key Features

- Support 5th and 4th Gen Intel® Xeon® Scalable processors;
- 8 DIMMs; Up to 2TB 3DS ECC DDR5-5600 RDIMM;
- 2x 2.5" drive bays; 1 M.2 NVMe (PCIe 3.0 x2 from PCH);
- 6 heavy duty fans with optimal fan speed control; 1 Air Shroud(s);
- 600W DC Redundant Power Supplies Level;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 429mm (17.2" x 1.7" x 16.9") Package: 686 x 203 x 610mm (27" x 8" x 24")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 32C/64T; Up to 60MB Cache
System Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 internal fixed 2.5" SATA drive bays M.2: 1 M.2 PCIe 3.0 x2 NVMe slot (M-key 2280/22110)
Expansion Slots	Default • 1 PCIe 5.0 x16 LP slot • 2 PCIe 5.0 x16 FHFL slots
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1 support(Port 8 to 9) Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2 1 RJ45 1GbE with Realtek RTL8211F PHY (dedicated IPMI)
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports (Intel® X550-AT2) USB: 2 USB 2.0 Type-A ports(front) 2 USB 3.2 Gen1 Type-A ports(front) Video: 1 VGA port(Front) TPM: 1 TPM header

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(Front View – System)



	Slot Description
1	PCIe 5.0 x16 FHFL
2	PCIe 5.0 x16 FHFL
3	PCIe 5.0 x16 LP

(Rear View – System)



System Cooling	Fans: 6 heavy duty with optimal speed control and 40x40x65mm Fan(s)
Power Supply	2x 600W Redundant (1 + 1) Typical 90%+ Level (96%) power supplies
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment CPU thermal trip support, PEPI
Dimensions and Weight	Weight: Gross Weight: 14.99 lbs (6.8 kg) Net Weight: 10.01 lbs (4.54 kg) Available Color: No Paint
Operating Environment	Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	**Super X13SEW-TF-OS1**
Chassis	**CSE-515B-R601W**

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