

# SuperServer E403-9D-14CN-FRN13+



Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |



[Super X11SDW-14CN-TP13F+](#)

## Key Applications

- Multi-Access Edge Computing (MEC)
- Universal Customer Premise Equipment (uCPE)
- Network Function Virtualization (NFV)
- Edge Computing, Vehicle to Everything Application (C-V2X / V2X)

## Key Features

1. Intel® Xeon® D-2177NT Processor, 14 Cores, 28 Threads, 1.9 GHz, 105W
2. Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2400Mz; in 4 DIMM slots
3. 2 PCI-E 3.0 x16 or 2 PCI-E 3.0 x8 + 1 PCI-E 3.0 x16 (FHFL) slots
4. 4 Internal 2.5" drive bays
5. M.2: 1 M-Key 2280/22110, 1 E-Key 2230, 1 B-Key, 3042
6. 9 GbE (one for Ethernet management), 4x 10G SFP+, 1 Dedicated IPMI LAN port
7. 2 USB 3.0, 2 USB 2.0, 1 COM via RJ45, VGA via BMC
8. 800W Redundant Power Supplies **Platinum Level Certified**

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Manuals](#) [Quick-References Guide](#) [Tested Memory](#) [Tested M.2 List](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

## Specifications ^

### Product SKUs

**SYS-E403-9D-14CN-FRN13+** SuperServer E403-9D-14CN-FRN13+ (Black)

### Motherboard

[Super X11SDW-14CN-TP13F+](#)

### Processor

**CPU** Intel® Xeon® processor D-2177NT, CPU TDP support 105W

**Cores / Cache** 14 Cores, 28 Threads

### System Memory

**Memory Capacity** Up to 512GB DDR4 ECC LRDIMM  
Up to 256GB DDR4 ECC RDIMM  
4 DIMM slots

**Memory Type** 2666/2400/2133MHz ECC DDR4 L/RDIMM  
Operating speed up to 2400MHz

**DIMM Sizes** 128GB, 64GB, 32GB, 16GB

**Memory Voltage** 1.2 V

### On-Board Devices

**Chipset** System on Chip (SoC)

**SATA** SATA3 (6Gbps) ports via SoC controller

**Network Controllers** 4x 10G SFP+ via SoC  
8x 1GbE with Intel I350-AM4  
Single 1GbE with Intel I210

**IPMI** Support for Intelligent Platform Management Interface v.2.0  
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

**Video** VGA via Aspeed AST2500 BMC

### Input / Output

**SATA** 4 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10

**LAN** 9 RJ45 Gigabit Ethernet LAN ports  
4 10G SFP+ LAN ports  
1 RJ45 Dedicated IPMI LAN port

**USB** 2 USB 3.0 ports (front)  
2 USB 2.0 ports (front)

**Video** 1 VGA port

**Serial Port / Header** 1 COM via RJ45

### System BIOS

**BIOS Type** 128Mb SPI Flash with AMI BIOS

### Management

**Software** Intel® Node Manager

[IPMI 2.0](#)

NMI

[SUM](#)

Watch Dog

[SuperDoctor® 5](#)

### Chassis

**Form Factor** Box PC

**Model** CSE-E403IF-000NDBP2

### Dimensions and Weight

**Height** 4.62" (117mm)

**Width** 10.5" (267mm)

**Depth** 16" (406mm)

**Weight** Gross Weight: 23 lbs (10.43 kg)  
Net Weight: 17 lbs (7.7 kg)

**Available Colors** Black

### Front Panel

**Buttons** Power On/Off button  
System Reset button

**LEDs** Power LED  
Hard drive activity LED  
Network activity LEDs  
System Information LED

### Expansion Slots

**PCI-Express** 2 PCI-E 3.0 x16 (FHFL) slots or  
2 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 (FHFL) slots

**M.2** 1 M.2 M-Key , 2280/22110  
1 M.2 E-Key , 2230  
1 M.2 B-Key , 3042

### Drive Bays

**Internal** 4 Internal 2.5" drive bays

### System Cooling

**Fans** 3x 80x80mm PWM redundant fans

### Power Supply

800W Redundant Power Supplies with PMBus

**Total Output Power** 750W: 100 - 127Vac  
800W: 200 - 240Vac  
800W: 230 - 240Vdc

**Dimension (W x H x L)** 54.5 x 40.25 x 220 mm

**Input** 750W: 100-127Vac / 10A  
800W: 200-240Vac / 5.5A  
800W: 230-240Vdc / 5.5A

**+12V** Max: 62.5A /Min: 0.5A (100-127Vac)  
Max: 66.6A /Min: 0.5A (200-240Vac, 230-240Vdc)

**+5Vsb** Max: 4A /Min: 0A

**Output Type** Gold Finger

**Certification** **Platinum Level**

**DC option for: (AC counter-part)** PWS-601D-1R

### Operating Environment / Compliance

**RoHS** RoHS Compliant

**Environmental Spec.** Operating Temperature:  
0°C ~ 50°C (32°F ~ 122°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)

## Parts List ^

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11SDW-14CN-TP13F+	1	Super X11SDW-14CN-TP13F+ Motherboard
	CSE-E403IF-000NDBP2	1	Black 2.5U Embedded redundant BOX for FlexATX MB, W/O PWS
<b>Add-on Card / Module</b>	AOM-SDW-B16X2-P	1	AOM-SDW-B16X2, Dual PCIe x16 slot WIO Riser Card for Intel FlexRAN project,RoHS
<b>Cable 1</b>	CBL-0082L	2	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Cable 2</b>	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
<b>Cable 3</b>	CBL-CUSB-0831	1	[NR] USB2.0, 2 PORT,2x TYPE-A to 2X5/P2.54,63cm,26AWG,RoHS
<b>Cable 4</b>	CBL-PWCD-0260-IS	1	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,18AWG,RoHS/REACH
<b>Cable 5</b>	CBL-SAST-0538	2	29cm 30AWG SATA S-RA Cable
<b>FAN</b>	FAN-0201L4	3	80x80x80 mm, 9.6K-9.9K RPM Counter-rotating Cooling Fan
<b>Parts</b>	MCP-260-00153-0B	1	1U I/O Shield for X11SDW-14CN-TP13F+ with EMI Gasket, Black
<b>Power Supply</b>	PWS-804P-1R	2	1U 800W 100-240VAC/50-60Hz, and DC240V input
<b>Power Distributor</b>	PDB-PT403-8824	1	PDB-PT403-8824 is modified from PDB-PT802-8824 for E403 syst

Notes:

1. Parts with \* are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

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