

SuperServer E403-9D-16C-FN13TP



Integrated Board



Super X11SDW-16C-TP13F

[▶ Drivers & Utilities](#) [▶ BIOS](#) [▶ IPMI](#) [▶ 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.

Key Features

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

1. Intel® Xeon® D-2183IT Processor, 16 Cores, 32 Threads, 2.2 GHz, 100W

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 (FH3/4L) 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), 2x 10GbE, 2x 10G SFP+, and 1 Dedicated IPMI LAN port

7. 2 USB 3.0, 2 USB 2.0, 1 COM via RJ45, VGA via BMC

8. 600W Multi-output Gold Level Power Supply

Specifications

Product SKUs

SYS-E403-9D-16C-FN13TP	■ SuperServer E403-9D-16C-FN13TP (Black)
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Motherboard

Super X11SDW-16C-TP13F

Processor

CPU	■ Intel® Xeon® processor D-2183IT, CPU TDP support 100W
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Cores / Cache	■ 16 Cores, 32 Threads
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System Memory

Memory Capacity	■ Up to 512GB DDR4 ECC LRDIMM ■ Up to 256GB DDR4 ECC RDIMM ■ 4 DIMM slots
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Memory Type	■ 2666/2400/2133MHz ECC DDR4 L/RDIMM ■ Operating speed up to 2400MHz
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DIMM Sizes	■ 128GB, 64GB, 32GB, 16GB
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Memory Voltage	■ 1.2 V
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On-Board Devices

Chipset	■ System on Chip (SoC)
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SATA	■ SATA3 (6Gbps) ports via SoC controller
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Network Controllers	■ Dual 10G SFP+ via SoC ■ Dual 10GBase-T via Intel X557 ■ 8x 1GbE with Intel I350-AM4 ■ Single 1GbE with Intel I210
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IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
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Video	■ VGA via Aspeed AST2500 BMC
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Input / Output

SATA	■ 4 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
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LAN	■ 9 RJ45 Gigabit Ethernet LAN ports ■ 2 RJ45 10GbE LAN ports ■ 2 10G SFP+ LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
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USB	■ 2 USB 3.0 ports (front) ■ 2 USB 2.0 ports (front)
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Video	■ 1 VGA port
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Serial Port / Header	■ 1 COM via RJ45
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System BIOS

BIOS Type	■ 128Mb SPI Flash with AMI BIOS
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Management

Chassis

Form Factor	■ Box PC
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Model	■ CSE-E403IF-505
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Dimensions and Weight

Height	■ 4.3" (109mm)
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Width	■ 10.5" (267mm)
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Depth	■ 16" (406mm)
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Weight	■ Gross Weight: 23 lbs (10.43 kg) ■ Net Weight: 17 lbs (7.7 kg)
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Available Colors	■ Black
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Front Panel

Buttons	■ Power On/Off button ■ System Reset button
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LEDs	■ Power LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Information LED
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Expansion Slots

PCI-Express	■ 2 PCI-E 3.0 x16 (FH3/4L) slots or ■ 2 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 (FH3/4L) slots
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M.2	■ 1 M.2 M-Key , 2280/22110 ■ 1 M.2 E-Key , 2230 ■ 1 M.2 B-Key , 3042
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Drive Bays

Internal	■ 4 Internal 2.5" drive bays
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System Cooling

Fans	■ 3x 80x80mm PWM redundant fans
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Power Supply

600W AC multi output power supply w / PFC

AC Voltage	■ 100-240 V, 50-60 Hz, 7.5-3.1 Amp
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+5V	■ 20 Amp
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+5V standby	■ 3 Amp
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+12V	■ 49 Amp
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+3.3V	■ 16 Amp
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Certification



Gold Certified
[[Test Report](#)]

Operating Environment / Compliance

RoHS	■ RoHS Compliant
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Software

- Intel® Node Manager
 - IPMI 2.0
 - NMI
 - SUM
 - Watch Dog
 - SuperDoctor® 5
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Environmental Spec.

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- 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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDW-16C-TP13F	1	Super X11SDW-16C-TP13F Motherboard
	CSE-E403IF-505	1	Embedded Server Box
Add-on Card / Module	AOM-SDW-B16X2-P	1	AOM-SDW-B16X2, Dual PCIe x16 slot WIO Riser Card for Intel FlexRAN project,RoHS
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0483L	2	SATA,INT,ROUND,ST-ST,29CM,30AWG
Cable 3	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
Parts	MCP-260-00144-0B	1	1U IO Shield for X11SDW with EMI Gasket, Black
Air Shroud	MCP-310-50502-0B	1	Air shroud for SC505 + X10SDV-7TP8F
Power Supply	PWS-601-1H	1	1U 600/680W MULTI OUTPUT PWS 80+ GOLD

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.