

SuperServer E403-9D-4C-FRDN13+



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



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

- Intel® Xeon® D-2123IT Processor, 4 Cores, 8 Threads, 2.2 GHz, 60W
- Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2400Mz; in 4 DIMM slots
- 2 PCI-E 3.0 x16 or 2 PCI-E 3.0 x8 + 1 PCI-E 3.0 x16 (FHFL) slots
- 4 Internal 2.5" drive bays
- M.2: 1 M-Key 2280/22110, 1 E-Key 2230, 1 B-Key, 3042
- 9 GbE (one for Ethernet management), 4x 10G SFP+, 1 Dedicated IPMI LAN port
- 2 USB 3.0, 2 USB 2.0, 1 COM via RJ45, VGA via BMC
- 600W -48V DC input Redundant Power Supplies

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

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-4C-FRDN13+	SuperServer E403-9D-4C-FRDN13+ (Black)
Motherboard	
Super X11SDW-4C-TP13F+	
Processor	
CPU	Intel® Xeon® processor D-2123IT, CPU TDP support 60W
Cores / Cache	4 Cores, 8 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
600W -48V DC input Redundant Power Supplies	
Total Output Power	600W: -44Vdc to -65Vdc
Dimension (W x H x L)	54.5 x 40 x 220 mm
DC Input	-44Vdc to -65Vdc / 18 - 10A
+12V	Max: 50A / Min: 0A
+5V sb	Max: 3A / Min: 0A
Output Type	Gold Finger Connector Mating with Molex 45984-4343
DC option for: (AC Counter- part)	PWS-406P-1R, PWS-407P-1R, PWS-606P-1R, PWS-608P-1R, PWS-804P-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
Motherboard / Chassis	MBD-X11SDW-4C-TP13F+	1	Super X11SDW-4C-TP13F+ Motherboard
	CSE-E403iF-000NDBP2	1	Black 2.5U Embedded redundant BOX for FlexATX MB, W/O PWS
Add-on Card / Module	AOM-SDW-B16X2-P	1	AOM-SDW-B16X2, Dual PCIe x16 slot W/O Riser Card for Intel FlexRAN project,RoHS
Cable 1	CBL-0082L	2	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
Cable 3	CBL-CUSB-0831	1	[NR] USB2.0, 2 PORT,2x TYPE-A to 2X5/P2.54,63cm,26AWG,RoHS
Cable 4	CBL-SAST-0641	4	45cm SATA Cable S-RA 30AWG,RoHS/REACH
FAN	FAN-0201L4	3	80x80x80 mm, 9.6K-9.9K RPM Counter-rotating Cooling Fan
Parts	MCP-260-00153-0B	1	1U I/O Shield for X11SDW-14CN-TP13F+ with EMI Gasket, Black
Air Shroud	MCP-310-40302-0B	1	Mylar air shroud for X11SDW in CSE-E403iF, RoHS,Black
Power Supply	PWS-601D-1R	2	-48V DC input, 12V and 5Vsb 600W output for 1U redundancy
Power Distributor	PDB-PT403-8824	1	PDB-PT403-8824 is modified from PDB-PT802-8824 for E403 syst

Notes:

- Parts with * are inside the chassis
- 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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