SuperServer E403-9P-FN2T

Integrated Board

Super X11SPW-TF

Views: | Angled View | Top View |
| Front View | Rear View |

▶ Drivers & Utilities   ▶ BIOS   ▶ IPMI   ▶ Tested Memory   ▶ Tested M.2 List   ▶
Manuals   ▶ Quick-References Guide   ▶ Drive Options

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)**
**Artificial Intelligence (AI) on Edge,
  Machine Learning (ML)**
**Industrial Automation, Retail, Smart
  Medical Expert Systems**

1. Single Socket P (LGA 3647) supports
   2nd Gen Intel® Xeon® Scalable
   processor ‡

2. 6 DIMMs; up to 1.5TB 3DS ECC
   DDR4-2933MHz RDIMM/LRDIMM

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
   PCI-E 3.0 x4 and SATA

6. 2x 10GBase-T ports with Intel
   X722 + X557

7. 1 VGA, 1 COM, 4 USB 3.0,
   2 USB 2.0

8. 600W Multi-output
   Gold Level Power Supply

Product SKUs

SYS-E403-9P-FN2T	▪ SuperServer E403-9P-FN2T (**Black**)

Motherboard

Super X11SPW-TF

Processor

CPU	▪ Single Socket P (LGA 3647) ▪ 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake-SP)‡ ▪ Support CPU TDP 70-205W
Cores	▪ Up to 28 Cores
Note	‡ BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R). Operating Temperature: 0°C ~ 35°C (32°F ~ 95°F) for Cascade Lake-R CPUs above 165W TDP, please contact Supermicro Technical Support for additional information.

System Memory

Memory Capacity	▪ 6 DIMM slots ▪ Up to 1.5TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM
Memory Type	▪ 2933/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

On-Board Devices

Chipset	▪ System on Intel® C622 chipset
SATA	▪ Intel® C622 controller; RAID 0, 1, 5, 10
Network Controllers	▪ Dual 10GBase-T LAN with Intel® X722 + X557
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	▪ ASPEED AST2500 BMC

Input / Output

SATA	▪ 4 SATA3 (6Gbps) ports
LAN	▪ 2 RJ45 10GBase-T LAN ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 4 USB 3.0 ports (front) ▪ 2 USB 2.0 ports (front)
Video	▪ 1 VGA port
Serial Port	▪ 1 COM port (front)
SuperDOM	▪ 2 SuperDOM (Disk on Module) ports with built-in power

System BIOS

BIOS Type	▪ AMI 32Mb SPI Flash ROM

Management

Software	▪ Intel® Node Manager ▪ IPMI 2.0 ▪ KVM with dedicated LAN ▪ NMI ▪ SPM, SUM ▪ SuperDoctor® 5 ▪ Watch Dog
Power Configurations	▪ ACPI Power Management ▪ Power-on mode for AC power recovery

Chassis

Form Factor	▪ Box PC
Model	▪ CSE-E403iF

Dimensions and Weight

Height	▪ 4.3" (109mm)
Width	▪ 10.5" (267mm)
Depth	▪ 16" (406mm)
Package	▪ 26" (W) x 10.4" (H) x 16.4" (D)
Weight	▪ Gross Weight: 24 lbs (10.89 kg) ▪ Net Weight: 18 lbs (8.16 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 ▪ Overheat 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†
Note	† See Manuals for settings on Expansion Card and BIOS

Drive Bays

Internal	▪ 4 Internal 2.5" drive bays
M.2	▪ M.2 Interface: PCI-E 3.0 x4 and SATA ▪ Form Factor: 2280, 22110 ▪ Key: M-Key ▪ Double Height Connector

System Cooling

Fans	▪ 3x 80x38mm PWM hot swap fans

Power Supply

600W AC multi output power supply w/ PFC

AC Voltage	▪ 100-240 V, 50-60 Hz, 7.5-3.1 Amp
+5V	▪ 20 Amp
+5V standby	▪ 3 Amp
+12V	▪ 49 Amp
+3.3V	▪ 16 Amp
Certification	80 PLUS GOLD — **Gold Certified** [**Test Report**]

Operating Environment / Compliance

RoHS	▪ RoHS Compliant

Environmental Spec.	▪ Operating Temperature:
	  0°C ~ 45°C (32°F ~ 113°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)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-MBD-X11SPW-TF	1	Super MBD-X11SPW-TF Motherboard
	CSE-E403iF	1	Black 2.5U Embedded Server Box W/O PWS
Riser Card	AOM-SDW-B16X2-P	1	AOM-SDW-B16X2, Dual PCIE x16 slot WIO 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-0206L	4	CBL-SAST-0641 / 4 / SATA,INT,ROUND,ST-RA,45CM,30AWG
Cable 3	CBL-CUSB-0832	1	USB 3.0(F) Type A 2x to USB3.0 20pin,73CM,30AWG
Cooling Fan	FAN-0200L4	3	80x80x38 mm, 13.5K RPM Cooling Fan for E403IF
Cooling Fan Accessory	MCP-320-40302-0N	1	Fan bracket with extension cable for 3x 8038 hot-swap,E403
Heat Sink	SNK-P0071VS	1	1U Proprietary Passive CPU Heat Sink (124 mm Long) for SYS-2029BZ-HNR Series Servers (X11 2U4N 3UPI Big Twin)
Air Shroud 1	MCP-310-40301-0B	1	Air shroud for CSE-E403iF+ X11SPW
Power Supply	PWS-601-1H	1	1U 600/680W MULTI OUTPUT PWS 80+ GOLD
Part 1	MCP-260-00078-0B	1	1U I/O shield for X11 Server MB with 5X5mm vent hole and EMI Gasket, Black
* Cable 4	CBL-0156L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,40CM,28AWG
* Tray	MCP-220-40301-0N	4	Fixed HDD tray 4x 2.5in for CSE-E403iF
* Front Panel 1	FPB-FP826-D	1	Front control board Dual color LED(FP826-D)forSC826,213,216,219
* Front Panel 2	TB826	1	Front panel adaptor board (TB826) forSC826,213,216,219
* Part 2	MCP-240-40301-0B	1	Black riser card bracket 3x slot for WIO M, CSE-E403iF
* Part 3	MCP-260-40301-0B	1	I/O Shield support 2x USB for CSE-E403iF

Notes:
1. Parts with * come with 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.

	Part Number	Qty	Description
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard Lp, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGS-i2T	-	Standard Lp, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
	AOC-S25G-b2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414
	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX