

TECHNICAL DATASHEET

SUPERMICRO · EDGE & EMBEDDED

Supermicro Server SYS-E403-9D-16C-FRDN13

SKU SYS-E403-9D-16C-FRDN13

Compact

Supermicro

SuperServer SYS-E403-9D-16C-FRDN13+

(Angled View – System)



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FORM FACTOR

Compact

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request



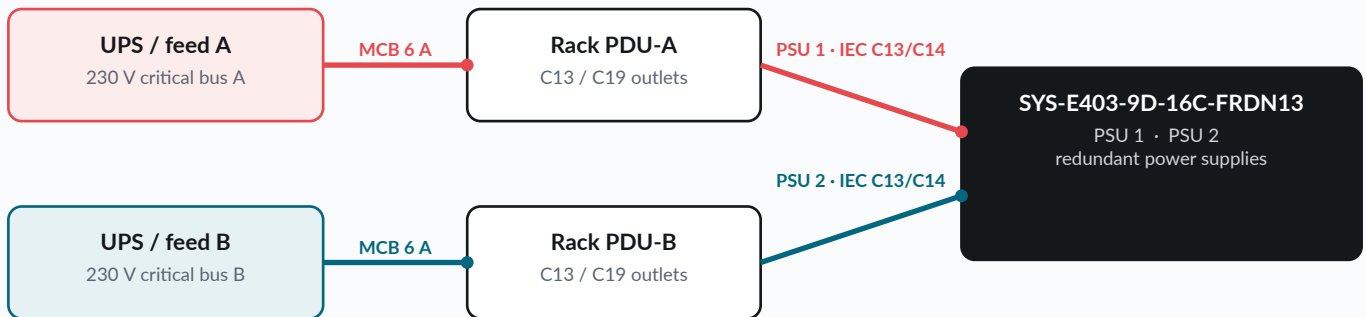
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03 Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C13/C14 power cords.
- Maximum current per feed: 1.4 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 306 W = 1,044 BTU/h (0.3 kW).

04 Full specifications

PROCESSOR

CPU	Intel Xeon processor D-2183IT , CPU TDP support 100W
Cores / Cache	16 Cores, 32 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
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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
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MANAGEMENT

Software	Intel Node Manager IPMI 2.0 NMI SUM Watch Dog SuperDoctor 5
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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
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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)

05 Built, tested & supported by ServerInvest

Engineered configuration

Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in

Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty

Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery

Rails, cable management and labelling included — delivered across Europe.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
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