

TECHNICAL DATASHEET

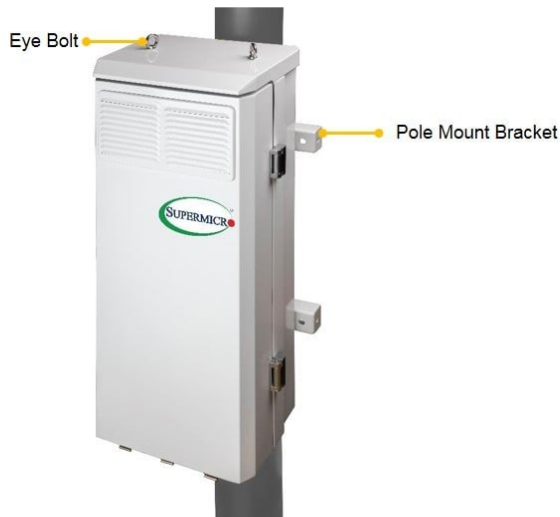
SUPERMICRO · EDGE & EMBEDDED

Supermicro Server SYS-E403-9D-16C-IPD2

SKU SYS-E403-9D-16C-IPD2

Compact

Supermicro

SYS-E403-9D-16C-IPD2*(Angled View – System)*

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FORM FACTOR

Compact

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/sys-e403-9d-16c-ipd2

01 Product overview

The Supermicro SYS-E403-9D-16C-IPD2 is a server built on Intel Xeon D with up to 512 GB of memory in 4 DIMM slots.

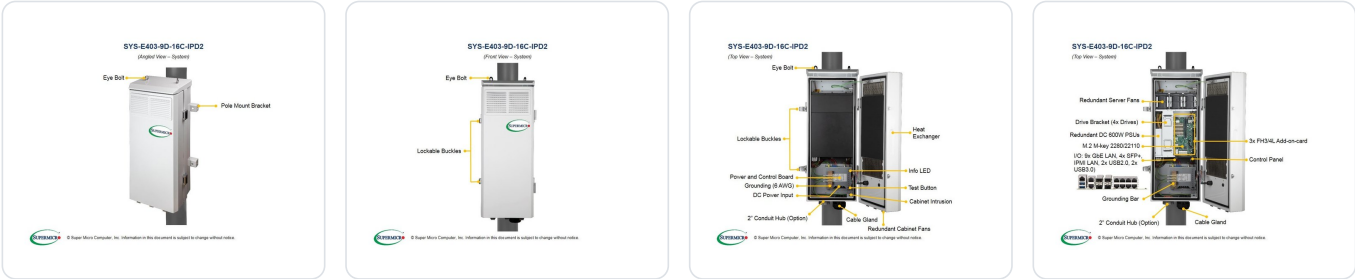
ServerInvest configures every SYS-E403-9D-16C-IPD2 to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Xeon D
- Up to 512 GB memory · 4 DIMM slots
- 4 Internal 2.5" drive bays
- Power: 3 Amp
- Networking: 4x 10G SFP+ LAN via SoC

KEY SPECIFICATIONS

Form factor	Compact
Processor	Intel Xeon D
Memory	4 DIMM slots, up to 512 GB
Drive bays	4
Typical power draw	450 W
Networking	4x 10G SFP+ LAN via SoC



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
73 W	190 W	306 W	1,044 BTU/h	0.3 kW	—



Typical 190 W · max 306 W

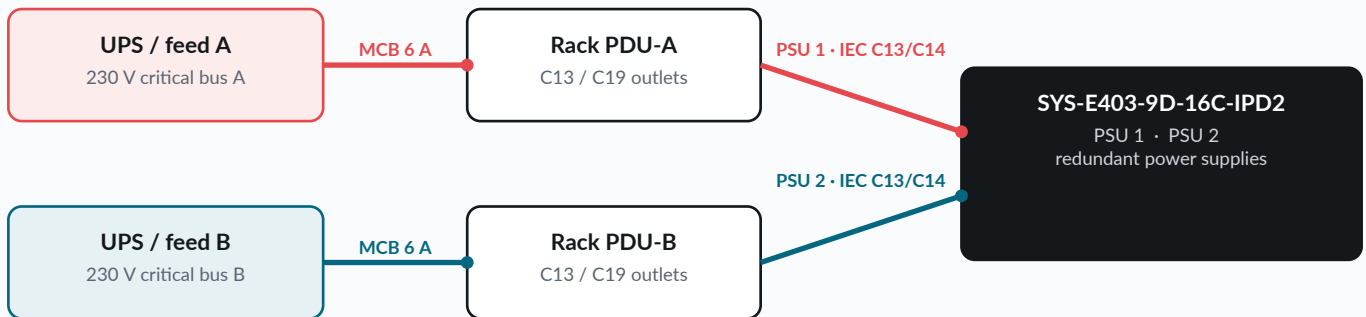
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU (base configuration)	25 W	110 W	185 W
2x Memory (base configuration)	6 W	10 W	18 W

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

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+ LAN via SoC 8x RJ45 Gigabit Ethernet LAN with Intel Ethernet Controller I350-AM4 1x RJ45 Gigabit Ethernet 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, SSD only; RAID 0, 1, 5, 10
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LAN	4 10G SFP+ LAN ports 9 RJ45 Gigabit Ethernet 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	IP65 Enclosure
Model	CSE-B403-IP65

DIMENSIONS AND WEIGHT

Height	32.31" (821mm)
Width	12.56" (319mm)
Depth	10.16" (258mm)
Weight	Gross Weight: 157 lbs (71.21 kg) Net Weight: 101.5 lbs (46.04 kg)
Available Colors	White

FRONT PANEL

LEDs	Thermal Sensor LED Server Power LED Heater Power LED Main Power LED Fan LED Cabinet Intrusion 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
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

POWER

Total Power 900W -44 Vdc to -59 Vdc, support dual power input

Server Power 600W Short depth DC48V input Redundant Power Supplies

POWER SUPPLY

+5V 3 Amp

+5V standby 3 Amp

+12V Max: 50A & Min: 0A (-44--65Vdc)

+3.3V N/A

OPERATING ENVIRONMENT / COMPLIANCE

RoHS RoHS Compliant

Environmental Spec. Operating Temperature:
-40°C ~ 46°C + Solar load (-40°F ~ 114.8°F + Solar load)
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.
office@serverinvest.com

