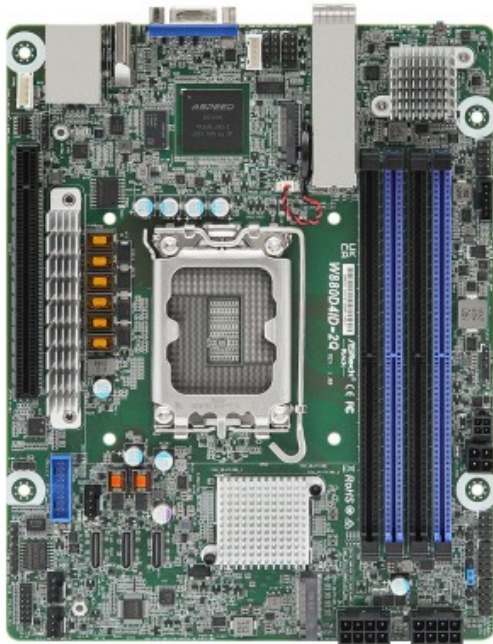


# ASRock W880D4ID-2Q, 1xSKT LGA 1851, Intel Core Ultra Desktop, W880, SATA, NVMe, 2xM.2, 2x25GbE, IPMI

Part number: W880D4ID-2Q



Form Factor	Deep mini-ITX
Dimensions	6.7" x 8.6"
CPU Socket	LGA 1851 (Socket V1)
# of CPU sockets	1
Supported CPU's	Intel Core Ultra Desktop
Chipset	W880
Memory Type	DDR5 ECC UDIMM
Memory Speed	5600 MT/s 4800 MT/s 4400 MT/s
# of DIMM's	4
Max Memory Size	48 GB
Integrated GPU	ASPEED AST2600
# of PCIe x16 5.0	1
# of USB Ports	2 x USB 3.2 (rear) 2 x USB 3.2 (header)
# of SATA Ports	2
# of NVMe ports	3
Integrated RAID	0/1/5/10
# of M.2 2280	2
# of 25GbE Ports	2 x SFP28
Network Controllers	Intel E810
Integrated BMC	IPMI Dedicated RJ45
BMC chip	ASPEED AST2600
TPM	1 x TPM 2.0 13-pin Header

## W880D4ID-2Q

- Support ATX PSU or 12V DC-in
- Deep mini-ITX (6.7" x 8.5937")
- Supports Intel® Core™ Ultra Desktop Processors (Series 2)
- 4 DIMM slots (2DPC), supports DDR5 ECC/non-ECC UDIMM Memory
- 1 PCIe5.0 x16
- 2 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s), 1 OCuLink (PCIe4.0 x4)
- Supports 1 M.2 (PCIe5.0 x4), 1 M.2 (PCIe4.0 x4)
- 2 SFP28 (25GbE) by Intel E810
- 1 HDMI
- Remote management (IPMI)

# Specifications

## Physical Status

Form Factor	Deep mini ITX
Dimensions	6.7" × 8.5937"

## Processor System

CPU	Supports Intel® Core™ Ultra Desktop Processors (Series 2)
Socket	Single Socket LGA 1851
Chipset	Intel® W880

## System Memory

Supported DIMM Quantity	4 DIMM slots (2DPC)
Supported Type	DDR5 288-pin ECC/non-ECC UDIMM
Max. Capacity per DIMM	48GB
Max. DIMM Frequency	max. 5600MHz (2DPC-1DIMM) max. 4800MHz (2DPC-2DIMM 1R) max. 4400MHz (2DPC-2DIMM 2R)

## PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16	SLOT7: PCIe5.0 x16 [CPU]
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## Other PCIe Expansion Connectors

M.2 slot	1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU] 1 M-key (PCIe4.0 x4), supports 2280 form factor [PCH]
OCuLink	2 OcuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OcuLink (PCIe4.0 x4) [PCH]

## SATA/SAS Storage

PCH Built-in Storage	Intel® W880 (8 SATA 6Gb/s; RAID 0/1/5/10): 2 OcuLink
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## Ethernet

Additional GbE Controller	2 SFP28 (25GbE) by Intel® E810
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## Server Management

BMC Controller	ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated GLAN	1 RJ45 Dedicated IPMI LAN port by Realtek RTL8211F

## Graphics

Controller	ASPEED AST2600: 1 DB15 (VGA) Intel® Integrated Processor Graphics: 1 HDMI
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## Rear I/O

UID Button/LED	1 UID button, 1 UID LED
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Video Port	1 DB15 (VGA), 1 HDMI
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	1 dedicated IPMI
Other network connector	2 SFP28 (25GbE)

### Internal Connector/Headers

Power Connector	1 Micro-Fit (4-pin, ATX PSU signal) w/ ATX 24-pin adapter cable, 2 (8-pin, ATX 12V) support 12V DC-in
Other Power Connectors	1 (4-pin) for HDD power when using 12V DC-in power source
Auxiliary Panel Header	1 (9-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED
COM Header	1 (9-pin)
Speaker Header	1
Fan Header	3 (4-pin)
Thermal Sensor Header	1
TPM Header	1 (13-pin, SPI)
SGPIO Header	1
SMBus header	1
PMBus header	1
IPMB Header	1
Clear CMOS	1(2-pin)
Others	1 UID_LED, 1 IPMI_LED
USB 3.2 (Gen1) Header	1 header (19-pin, 2 USB3.2 Gen1)
NMI Header	1
NC-SI	1

### LED Indicators

Standby PWR LED	1 (5VSB)
Fan Fail LED	3
BMC heartbeat LED	1

### System BIOS

BIOS Type	AMI 256Mb SPI Flash ROM
BIOS Features	Plug and Play, ACPI 6.4 and above compliance wake up events, SMBIOS 2.3 and above, ASRock Rack Instant Flash

### Hardware Monitor

Temperature	CPU, PCH, MB temp, Card side temp, TR1, VR, M.2, E810 Temperature Sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	VCORE, GT, VCCSA, VNNAON, VCCIO, 1.8V_CPU, VDD2, 0.82V_PCH, 1.8VSB, 3V, 5V, 12V, BAT, 3VSB, 5VSB

### Environment

Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% ( Non condensing)

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