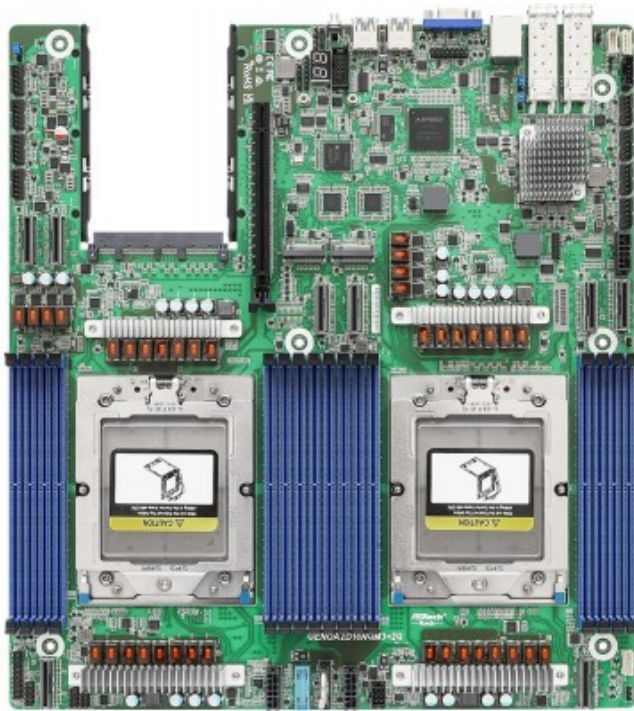


ASRock GENOA2D16NQM3-2Q, 2x SKT SP5, AMD EPYC 9004, SoC, 16xDIMM, NVMe, 2x25GbE, IPMI

Kod producenta: GENOA2D16NQM3-2Q



Category	Server
Form Factor	EEB
Dimensions	12.8" x 14"
CPU Socket	LGA 6096 (Socket SP5)
# of CPU sockets	2
Supported CPU's	AMD EPYC 9004
Max CPU TDP	320 W
Chipset	System on Chip
Memory Type	DDR5 ECC RDIMM
Memory Speed	4800 MT/s
# of DIMM's	16
Max Memory Size	8 TB
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 NVMe ports	8
# of M.2 2280	2
# of 25GbE Ports	2 x SFP28
Network Controllers	Broadcom BCM57414
Integrated BMC	IPMI Dedicated RJ45
BMC chip	ASPEED AST2600
TPM	1 x TPM 2.0 13-pin Header

GENOA2D16NQM3-2Q

- EEB (12.8" x14")
- Dual Socket SP5 (LGA 6096), supports AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
- 8+8 DIMM slots (1DPC), supports DDR5 RDIMM, RDIMM-3DS
- 1 PCIe5.0 x16
- 4 MCIO (PCIe5.0 / CXL1.1 x8), 1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)*
- 2 MCIO (PCIe5.0 / CXL1.1 x8 or 8 SATA 6Gb/s), 1 MCIO (PCIe5.0 x8)
- Supports 2 M.2 (PCIe4.0 x4 or SATA 6Gb/s)
- Up to 18 SATA 6Gb/s
- 2 SFP28 (25GbE) by Broadcom BCM57414
- 1 OCP NIC 3.0 (PCIe5.0 x16)
- Remote Management (IPMI)

Specyfikacja

Parametry płyty głównej

Standard	EEB
Wymiary	12.8" x14"

Procesor

CPU	Supports AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
Socket	Dual Socket SP5 (LGA 6096)
Chipset	System on Chip

Pamięć operacyjna

Pojemność	8+8 DIMM slots (1DPC)
Rodzaj	Supports DDR5 288-pin RDIMM, RDIMM-3DS
DIMM Size Per DIMM	RDIMM: 96GB (2R) RDIMM-3DS: 512GB (2S8Rx4)
Max. DIMM Frequency	4800 MHz
Napięcie	1.1V

Sloty rozszerzeń

PCIe x 16	SLOT6: PCIe5.0 x16 [CPU1]
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Magazynowanie

Kontroler SATA	AMD EPYC™ 9004 (Up to 18 SATA 6Gb/s): 2 MCIO for 16 SATA, 2 M.2
Others	4 MCIO (PCIe5.0 / CXL1.1 x8) [CPU0] 1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0]* 2 MCIO (PCIe5.0 / CXL1.1 x8 or 8 SATA 6Gb/s) [CPU1] 1 MCIO (PCIe5.0 x8) [CPU1] *MCIO from CPU0 support PCIe only while installing 2 processors
M.2 slot	2 M-key (PCIe4.0 x4 or SATA 6Gb/s); support 2280 form factor [CPU0]

Ethernet

Additional GbE Controller	Broadcom BCM57414: 2 SFP28 (25GbE)
OCP slot	1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1]

Zarządzanie

Kontroler BMC	ASPEED AST2600
IPMI Dedicated GLAN	1 Realtek RTL8211F for dedicated management GLAN

Grafika

Kontroler	ASPEED AST2600
VRAM	DDR4 512MB

Tylny panel I/O

Port VGA	1 DB15 (VGA)
Port USB 3.0	2 Type-A (USB3.2 Gen1)
Port Lan	1 dedicated IPMI

Other network connector	2 SFP28 (25GbE)
UID Button/UID LED	1 UID button w/ LED
Złącza wewnętrzne	
Power Connector	1 Micro-Fit (6-pin, ATX PSU signal) w/ ATX 24-pin adapter cable, 3 Micro-Hi (2x6-pin, 12V)
Port śledź COM	1
Złącze panelu AUX	1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus
Złącze TPM	1 (13-pin,SPI)
Złącze IPMB	1
Złącze VGA	1
Złącze wentylatorów	8 (6-pin)
Złącze panelu USB 3.2 (Gen1)	1 (19-pin, 2 USB3.2 Gen1) [CPU1]
NMI Header	1
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED
BMC_SMB Header	1
SGPIO Header	2
CPU HSBP	1
Clear CMOS	1 (contact pads)
Onboard LED	
Standby PWR LED 5vsb	1 (5VSB)
Port 80 LED	1
Fan Fail LED	8
BMC heartbeat LED	1
BIOS	
Rodzaj BIOS	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
Cechy BIOS	ASRock Rack Instant Flash, ACPI 6.4 and above compliance wake up events, SMBIOS 3.5.0 and above, Plug and Play(PnP)
Hardware Monitor	
Temperatura	CPU, MB, Card side Temperature Sensing
Wentylator	CPU/Rear/Front Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) CPU/Rear/Front Fan Multi-Speed Control
Napięcie	VDDCR_CPU0, VDDCR_CPU1, VDDCR_SOC, VDDIO, VDD_18_S5, VDD_33_S5, VDD_11_S3, +12V, +BAT, 3VSB, 5VSB
Środowisko	

Temperatura Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C

Humidity Non operation humidity: 20% ~ 90% (Non condensing)

Specyfikacja może ulec zmianie bez wcześniejszego powiadomienia. Marka i nazwy produktów są znakami towarowymi ich właścicieli. Działanie konfiguracji innych niż wynikające ze specyfikacji nie jest gwarantowane.

Strona firmowa produktu:

<https://www.superstorage.pl/asrock-genoa2d16nqm3-2q-2x-skt-sp5-amd-epyc-9004-soc-16xdimm-nvme-2x25gbe-ipmi-p-7569.html>