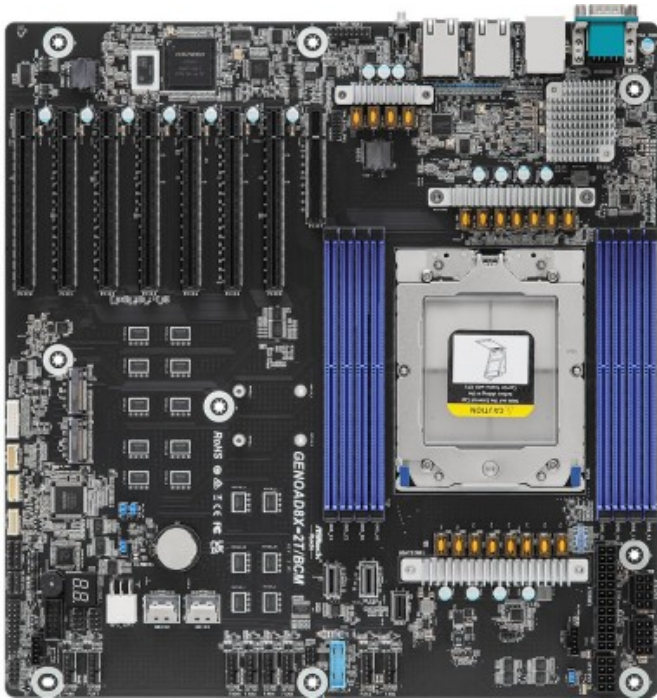


ASRock GENOAD8X-2T/BCM, 1xSKT SP5, AMD EPYC 9004, SoC, 8xDIMM, NVMe, 1xM.2, 2x10GbE, IPMI

Kod producenta: GENOAD8X-2T/BCM



Category	Server
Form Factor	EEB
Dimensions	12.63" x 13"
CPU Socket	LGA 6096 (Socket SP5)
# of CPU sockets	1
Supported CPU's	AMD EPYC 9004
Chipset	System on Chip
Memory Type	DDR5 ECC RDIMM
Memory Speed	4800 MT/s
# of DIMM's	8
Max Memory Size	4 TB
Integrated GPU	ASPEED AST2600
# of PCIe x16 5.0	7
# of PCIe x8 5.0	1
# of USB Ports	2 x USB 3.2 (rear) 2 x USB 3.2 (header)
# of NVMe ports	4
# of M.2 22110	2
# of Serial Ports	1 x DB9 (COM)
# of 10GbE Ports	2 x RJ45
Network Controllers	Broadcom BCM57416
Integrated BMC	IPMI Dedicated RJ45
BMC chip	ASPEED AST2600
TPM	1 x TPM 2.0 13-pin Header

GENOAD8X-2T/BCM

- EEB (12.63" x 13")
- Single Socket SP5 (LGA 6096), supports AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
- 8 DIMM slots (1DPC), supports DDR5 RDIMM, RDIMM-3DS
- 4 PCIe5.0 / CXL1.1 x16*, 3 PCIe5.0 x16, 1 PCIe5.0 x8**
- 2 MCIO** (PCIe5.0 x4 or 4 SATA 6Gb/s), 1 MCIO (PCIe5.0 x4 or 4 SATA 6Gb/s), 1 MCIO* (PCIe5.0 x4)
- Supports 1 M.2 (PCIe5.0 x4 or SATA 6Gb/s), 1 M.2* (PCIe5.0 x4)
- Up to 16 SATA 6Gb/s
- 2 RJ45 (10GbE) by Broadcom BCM57416
- Remote Management (IPMI)

Specyfikacja

Parametry płyty głównej

Standard	EEB
Wymiary	12.63" x 13"

Procesor

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

Pamięć operacyjna

Pojemność	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 / CXL1.1 x16□ SLOT5: PCIe5.0 x16 SLOT4: PCIe5.0 / CXL1.1 x16□ SLOT3: PCIe5.0 x16 SLOT2: PCIe5.0 / CXL1.1 x16□ SLOT1*: PCIe5.0 x16 SLOT0: PCIe5.0 / CXL1.1 x16 *SLOT1 shared lanes with 1 MCIO and 1 M.2. SLOT1 auto-switch to PCIe5.0 x8 when either 1 MCIO or 1 M.2 populated.
PCIe x 8	SLOT7**: PCIe5.0 x8 **SLOT7 share lanes with 2 MCIO. When SLOT7 occupied, 1 MCIO will not function and 1 MCIO can be enabled by jumper setting. When selecting 1 MCIO, SLOT7 will switch to PCIe x4.

Magazynowanie

Kontroler SATA	AMD EPYC 9004 (16 SATA 6Gb/s): 3 MCIO, 4 SATA via optional M2U2_HD_G4 M.2 device
Others	2 MCIO** (PCIe5.0 x4 or 4 SATA 6Gb/s) 1 MCIO (PCIe5.0 x4 or 4 SATA 6Gb/s) 1 MCIO* (PCIe5.0 x4)
M.2 slot	1 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280 form factor 1 M-key* (PCIe5.0 x4), supports 22110/2280 form factor

Ethernet

Additional GbE Controller	Broadcom BCM57416: 2 RJ45 (10GbE)
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Zarządzanie

Kontroler BMC	ASPEED AST2600
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IPMI Dedicated GLAN	1 Realtek RTL8211F for dedicated management GLAN
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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	2 RJ45 (10GbE) 1 dedicated IPMI
Port szeregowy	1 DB9 (COM)
UID Button/UID LED	1 UID button w/ LED

Złącza wewnętrzne

Power Connector	1 (24-pin, ATX main power), 3 (8-pin, ATX 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 czujnika temperatury	1
Złącze IPMB	1
Złącze VGA	1
Złącze wentylatorów	8 (6-pin)
Złącze panelu USB 3.2 (Gen1)	1 (19-pin, 2 USB3.2 Gen1)
NMI Header	1
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED
Głośnik	1 (4-pin)
BMC_SMB Header	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, TR1 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	VCORE,VCCSA,VCCM,3V, 5V, 12V, +1.05V_PCH_AUX,+BAT, 3VSB, 5VSB,VCCIO,+2.5V_VPP

Obsługiwane systemy

System operacyjny	Microsoft® Windows: - Server 2019 (64 bit) - Server 2022 (64 bit) Linux: - RedHat Enterprise Linux Server 8.6 (64 bit) / Server 8.7 (64 bit) / Server 9.0 (64 bit) / Server 9.1 (64 bit) - SUSE SLES 15.4(64 bit) - Ubuntu 20.04.5 (64 bit) / 22.04 (64 bit) / 22.10 (64 bit) Hypervisor:: - VMWare® ESXi/ 7.0 U3i / 8.0 - CITRIX Hypervisor 8.2.1
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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-genoad8x-2tbcml1xskt-sp5-amd-epyc-9004-soc-8xdimm-nvme-1xm2-2x10gbe-ipmi-p-7565.html>