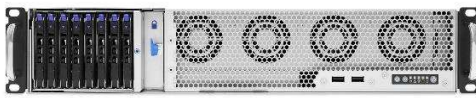# Key Features:

- Supports 4th Gen AMD EPYC™ 9000 series Processors (Codename "Genoa")
- Supports 8x DDR5 RDIMM Memory
- Supports SSD type Gen5 E1.S, E3.S (2 types of EDSFF) and Gen4 U.2 Note: Gen5 EDSFF SSDs offer more flexibility, power, performance, efficiency, and versatility compared to Gen4 SSDs which are currently more affordable.
- Short-depth design for space critical usage
- 3 PSU Options: single, redundant/single and DC input
- Supports up to 2 GPU cards
- Full drive removal with one lever
- Front-to-back airflow and easy swap redundant fans to provide optimal thermal with high air flow. Note: Not suitable for open office environment.

Specifications	
Motherboard	
Processor	AMD 4th Gen AMD EPYC Processors (Codename: Genoa) 360W Max, Socket Type SP5 9124 Cores 16/32T Base 3.0GHz L3 64MB 200W 9384 Cores 32/64T Base 3.10Hz L3 768MB 320W 9734x Cores 112/224T Base 2.2GHz L3 256MB 340W 9654 Cores 96/192T Base 2.4GHz L3 384MB 360W
Model	AIC Server Board Capella
Chipset	AMD Zen4 Genoa EPYC
Memory	Supports total up to 4TB, DDR5 4800 MHz, Total 8 memory slots 8GB DDR5-4800 RDIMM 16GB DDR5-4800 RDIMM 32GB DDR5-4800 RDIMM 64GB DDR5-4800 RDIMM 128GB DDR5-4800 RDIMM 256GB DDR5-4800 RDIMM 512GB DDR5-4800 RDIMM
Expansion Slots	1 x PCIe Gen5 X16 slot (Half Height Half Length) 2 x PCIe Gen5 X8 slots (Full Height Half Length) 2 x PCIe Gen5 X16 slot double deck (Full Height Full Length)

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Specifications

	1 x OCP 3.0 Mezz. PCIe Gen5 X16 2 x M.2 22110 PCIe Gen5 X4
GPU	Nvidia RXT 4500 Ada 24GB GDDR6 210 watt
System BIOS	Type: AMI / Serial Peripheral Interface FLASH interface. Features: ACPI, PXE, IPMI KCS interface, SMBIOS, Serial console redirection, SR-IOV, CXL, TPM, PCIe hotplug,
On-board Devices	IPMI: IPMI 2.0 compatible BMC with iKVM support, Media Redirection, SMASH Support, HTML5, Redfish, AST2600 eSPI Network Controllers: Broadcom BCM5720 for BMC shared NIC and data transfer by onboard header. Realtek RTL8211F GbE for BMC dedicated management port NCSI shared NIC reserved BCM5720. Graphics: Aspeed AST2600 Advanced PCIe Graphics and Remote Management Processor, PCIe VGA/2D Controller, 1920 X 1200 @ 60Hz 32bpp TPM 2.0
Chassis	
Front Panel	Power switch, reset button, ID button, 2 x USB 2.0
Front of System	Power status, HDD status, LAN LED, BMC Alert LED, ID LED SSD status: Green light: running. Flashing green light: reading. Amber light: no function, customize. Blue light: no function, customize.
Back of System	PSU: Constant bright green light: system running. Red light: power has issue. Flashing green light: has power but system does not turn on.
Rear Input/Output	LAN: 1 x GbE RJ45 dedicated to BMC management, USB: 2 x USB3.2 Gen 1 (5Gbps) double-stake Type A connectors Serial Port: 1 x external COM (by Audio Jack) 1 x internal COM1 header + rear IO COM by Phone jack + LCM header Video: output 1 x mini-DP ID: 1 x ID LED
Riser Cards	BRC-PE2005A 2 x Full height Full length support x16 from 2 MICO BRC-PE20049A 2 x Full height Half-length x8 + x8 from GenZ GF
Storage Bays and internal SSD options	
Drive Bays	Options: E1.S 8 bay 9.5mm E3.S 8 bay 7.5mm U.2 4 bay 2.5 inch

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Specifications	
Backplane	1 x 8-port E1.S (9.5mm) E3.S (7.5mm) backplane 2 x 2-port U.2 (2.5") backplane
Internal Storage	2 x NGFF M.2 M-Key 2280/22110 SSD Boot Drive
Power and Cooling	
Power Supply	1600W 1+1 3 PSU options: • Training simulation - single PSU • Edge applications - redundant/single • Edge applications and vehicle - DC input (1200W)
System Cooling	4 x 6056 fans, supports fan redundancy, 2 x 4028 fans behind EDSFF drive backplane
Physical Properties	
Dimensions	W x D x H in mm: 438 x 558 x 87.2 W x D x H in Inch: 17 x 22 x 3.4
Environmental Specifications	Storage temperature: -10ºC(14ºF) ~ 60ºC(140ºF) Operating temperature: 0ºC(32ºF) ~ 35ºC(95ºF) Storage operating humidity: 5%~95% non-condensing

Operating System	
Linux Distributions	Rocky Linux 8.x (64-bit) Rocky Linux 9.x (64-bit) Debian Linux 12 (64-bit) Fedora Linux 37 Server Edition (64-bit) openSUSE Leap Linux 15.x (64-bit) Scientific Linux 7.9 (64-bit) Ubuntu Linux 20.04 LTS Server Edition (64-bit) Ubuntu Linux 22.04 LTS Server Edition (64-bit)

Contec Americas Inc.

3991 Sarno Rd.

Melbourne, FL 32934

USA

Toll Free: (888) 285-0172

Local: (321) 728-0172

Email: sales@us.contec.com

Visit: www.Contec.com

https://www.contec.com/us/

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