

BAS-6101A

Edge Computing Server

AEWIN Technologies Co., Ltd.

BAS-6101A is a 2U server with single AMD Bergamo/Genoa processor, 24x DDR5 slots, 8x PCIe slots & 1x OCP3.0 slot for different add-on cards and 6x pluggable 2.5" HDDs.



Features

- Support most advanced AMD Bergamo/Genoa platform.
- Support 24x DDR5 RDIMMs & 3DS RDIMMs.
- Support 8x PCIe slots (e.g. GPU cards for AI applications) and 1x OCP3.0 slot for LAN port expansion.
- Support 1x RJ45 GbE for IPMI (ASPEED 2600).
- Support 6x SATA/NVMe SSD. Customers can use RAID card to enhance SSD performance and reliability.

Description

BAS-6101A is a 2U edge server. It supports the most advanced AMD Bergamo/Genoa processor, 24x DDR5 slots, 6x SATA/NVMe SSD, 8x PCIe slots & 1x OCP slot. It also supports IPMI function to simplify local/remote management. AEWIN develop BAS-6101A for edge server or GPU server to match AI or Telecom customers requirement. Customers can install different add-on cards (e.g. GPU/AI card, QAT card, encryption card, smart NIC or accelerator card) to satisfy their biz needs.

Specifications

▼ Processor System

CPU	AMD SP5 Genoa/Bergamo
Chipset	SOC Integrated
BIOS	AMI UEFI BIOS

▼ Memory

Technology	Up to 24x DDR5 RDIMM
Capacity	Up to 2.2TB (24Gb 96GB, non 3DS), Up to 12TB (3DS, to be validated by request)

▼ Expansion

Onboard Expansion Slots	-Up to 2x dual width FHFL PCIe Gen5 x16 + Up to 2x single width FHHL PCIe Gen5 x16 or up to 4x single width FHFL PCIe Gen5 x16 + up to 2x single width FHHL PCIe Gen5 x16 -Up to 2x HHL PCIe Gen4 x8 -1x OCP3.0 SFF Gen5 x16
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▼ I/O

USB	2x USB3.0 connector 1x USB3.0 + 1x USB2.0 internal pin header
Serial	COM1: 1x RJ45 Console COM2 & 3 pin header
Display	1x VGA

▼ Ethernet

GbE Ethernet	1x 1Gb/s RJ45 IPMI management port through AST2600 BMC
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▼ Storage

SATA	Up to 6x Hot Swap NVMe 2.5" or up to 6x Hot Swap SATA 2.5"
M.2	2x M.2 2280/ 22110 M key

▼ Power Supply

Watt	CRPS Redundant 1600W
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▼ Mechanical and Environment

Form Factor	2U Rackmount Edge Computing Server
LED	1x UID Button/LED (Blue) 1x Status LED (Red/Green) 1x Power LED (Green) 1x GPIO LED (Defined by customer) 1x Reset Button
Dimension (W x D x H)	438mm(W) x 600mm(D) x 88 mm(H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Weight	TBD kg
Certification	CE/FCC

▼ Packing List

- 1x BAS-6101A
- 2x power cord

Ordering Information

BAS-6101A 2U Rackmount, Single AMD Genoa processor, DDR5 RDIMM, 2 PCIe x8 slots & 6 PCIe x16 slots & 1 OCP3.0 slot for add-on card, hot-pluggable 6x 2.5" HDD cage, 2 M.2 socket, 1 RJ45 GbE, BMC, USB, VGA, UID button, Console.

Optional

OT018A Expansion module for OCP 3.0 SFF NIC with QAT and 4 RJ45 1GbE ports, Intel C627 PCH + Marvell 88E1543 PHY

OT020A Expansion module for Standard PCIe x16 FHHL QAT card with 1 QSFP28 100G + 2 SFP+ 10G + 2 RJ45 1GbE LAN ports, Intel E810-CAM1 + Intel C627 PCH + Marvell 88E1512 PHY

I/O

