

# BAS-6101A

Network Security Gateway

AEWIN Technologies Co., Ltd.

BAS-6101A is a 2U edge computing server with single AMD EPYC 9005/9004 Series Processor (Turin/Bergamo/Genoa), 24x DDR5 slots, 8x PCIe slots & 1x OCP3.0 slot for different add-on cards and 6x hot-swappable 2.5" SATA/NVMe



## Features

- Support Single AMD EPYC 9005/9004 Series Processor (Turin/Bergamo/Genoa)
- 24x DDR5 RDIMMs, up to 6000 MT/s
- 8x PCIe slots for GPU/FPGA , 1x OCP3.0 slot
- 6x 2.5" NVMe/SATA, 2x M.2 M key
- IPMI v2.0

## Description

BAS-6101A is a 2U edge server. It supports AMD Turin/Bergamo/Genoa processor, 24x DDR5 RDIMM slots, 6x SATA/NVMe SSDs, 8x PCIe slots, and 1x OCP slot. It also supports IPMI function to simplify local/remote management. BAS-6101A is designed for edge server to fulfill general purpose requirements including Networking, Storage, and Edge AI. Customers can install various kinds of add-on cards (e.g. GPU/AI card, QAT card, encryption card, smart NIC or accelerator card) to satisfy their specific needs for innovative applications.

## Specifications

### ▼ Processor System

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

### ▼ Memory

|            |                |
|------------|----------------|
| Technology | 24x DDR5 RDIMM |
| Capacity   | Up to 6TB      |

### ▼ Expansion

|                         |                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Onboard Expansion Slots | - 2x dual width FHFL PCIe Gen5 x16 +<br>2x single width FHHL PCIe Gen5 x16<br>or 4x single width FHFL PCIe Gen5 x16 +<br>2x single width FHHL PCIe Gen5 x16<br>- 2x HHHL PCIe Gen5 x8<br>- 1x OCP3.0 SFF Gen5 x16 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### ▼ I/O

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

### ▼ Ethernet

|              |                                                        |
|--------------|--------------------------------------------------------|
| GbE Ethernet | 1x 1Gb/s RJ45 IPMI management port through AST2600 BMC |
|--------------|--------------------------------------------------------|

### ▼ Storage

|      |                                 |
|------|---------------------------------|
| SATA | 6x Hot Swap 2.5" NVMe/SATA      |
| M.2  | 2x M.2 2280/ 22110 M key (PCIe) |

### ▼ Power Supply

|      |                      |
|------|----------------------|
| Watt | CRPS Redundant 1600W |
|------|----------------------|

### ▼ Mechanical and Environment

|                       |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor           | 2U Rackmount Network Security Gateway                                                                                                 |
| LED                   | 1x UID Button/LED (Blue)<br>1x Status LED (Red/Green)<br>1x Power LED (Green)<br>1x GPIO LED (Defined by customer)<br>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                | Approximately 28 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

