

## DSF-A6000

Fanned Embedded BOX PC

**ASRock**  
— Industrial —



### KEY FEATURES

- AMD Ryzen™ Embedded R-Series R2314
- 2 x 260-pin ECC/non-ECC SO-DIMM DDR4 2666 MHz, up to 64GB (32GB per DIMM)
- 2 x USB 3.2 Gen2, 1 x USB 2.0, 1 x M.2 Key B, 1 x M.2 Key E, 1 x M.2 Key M, 1 x COM
- 1 x Intel Gigabit LAN, 1 x Realtek Gigabit LAN, 1 x Realtek 2.5 Gigabit LAN with PoE+ function (optional)
- Support Quad display, 4 x HDMI 2.0b
- TPM 2.0 onboard IC
- Optional support Allxon 24/7 Edge AI device remote management through MPU-OOB card
- 1 x 19V/90W power adapter
- 182.2 x 175.2 x 25mm (7.1" x 6.9" x 1"), Fanned Barebone

### SPECIFICATIONS

#### Processor System

|      |                                                          |
|------|----------------------------------------------------------|
| CPU  | AMD Ryzen™ Embedded R-Series (R2314, 4C, 2.1GHz, 12-35W) |
| BIOS | AMI SPI 64 Mbit                                          |

#### Memory

|            |                                        |
|------------|----------------------------------------|
| Technology | Dual Channel ECC/non-ECC DDR4 2666 MHz |
| Capacity   | 64 GB (32 GB per DIMM)                 |
| Socket     | 2 x 260-pin SO-DIMM                    |

#### Graphics

|              |                                     |
|--------------|-------------------------------------|
| Controller   | AMD Radeon™ Graphics                |
| HDMI         | HDMI 2.0b                           |
| MultiDisplay | Max resolution up to 4096x2160@60Hz |

#### Expansion Slot

|            |                                                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M.2        | 1 x M.2 (Key E, 2230) with PCIe Gen3 x1 and USB 2.0 for Wireless<br>1 x M.2 (Key B, 3042/3052) with PCIe Gen3 x1, USB 3.2 Gen1,<br>USB 2.0 and SIM for 4G/5G |
| SIM Socket | 1 x Socket connected to M.2 Key B                                                                                                                            |

#### Audio

|           |                                                         |
|-----------|---------------------------------------------------------|
| Interface | Realtek ALC256, High Definition Audio. Line-out, Mic-in |
|-----------|---------------------------------------------------------|

#### Ethernet

|                   |                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller/ Speed | LAN1: Realtek® RTL8111H with 10/100/1000 Mbps<br>LAN2: Intel® I210 with 10/100/1000 Mbps<br>LAN3: Realtek® RTL8125BG with 10/100/1000/2500 Mbps,<br>supports PoE+ (optional) |
| Connector         | 3 x RJ-45                                                                                                                                                                    |

#### Storage

|     |                                                      |
|-----|------------------------------------------------------|
| M.2 | 1 x M.2 (Key M, 2242/2280) with PCIe Gen3 x4 for SSD |
|-----|------------------------------------------------------|

#### Front I/O

|              |                   |
|--------------|-------------------|
| Ethernet     | 2 x 1 Gigabit LAN |
| HDMI         | 4 x HDMI 2.0b     |
| USB          | 2 x USB3.2 Gen2   |
| HDD/WIFI LED | 1                 |
| Power Button | 1                 |

#### Rear I/O

|                   |                        |
|-------------------|------------------------|
| DC Jack           | 1                      |
| Ethernet          | 1 x 2.5 Gigabit LAN    |
| Clear EDID Button | 1                      |
| COM               | 1 x RS232 (RJ50)       |
| USB               | 1 x USB 2.0            |
| Audio             | 1 (Mic-in or Line-out) |
| SIM Socket        | 1                      |

#### Watchdog Timer

|          |                                  |
|----------|----------------------------------|
| Output   | From Super I/O to drag RESETCON# |
| Interval | 256 Segments, 0, 1, 2, ...255sec |

#### Power Requirements

|           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Input PWR | 12V~19V DC-In Jack                                                                                                        |
| Power On  | AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- ATX : Press button to PWR on after power input ready |

#### Environment

|                    |              |
|--------------------|--------------|
| Operating Temp     | 0°C ~ 40°C   |
| Storage Temp       | -40°C ~ 85°C |
| Operating Humidity | 5% ~ 90%     |
| Storage Humidity   | 5% ~ 90%     |

#### Mechanical

|                        |                                          |
|------------------------|------------------------------------------|
| Mounting               | VESA mount/Wall mount/Din Rail           |
| Dimensions (L x W x H) | 182.2 x 175.2 x 25 mm (7.1" x 6.9" x 1") |
| Weight                 | Net Weight: 0.75kg (1.65 lbs)            |

#### Others

|                |                                                       |
|----------------|-------------------------------------------------------|
| OS Support     | Windows 11                                            |
| OoBM support   | Optional: Out of band management through MPU-OOB card |
| TPM            | TPM 2.0 onboard IC                                    |
| Certifications | CE, FCC                                               |
| Packing List   | 1 x 19V/90W Power Adapter<br>1 x Wall mount bracket   |

## Assured Systems

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### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660