

ASR-3100

1U Rackmount Dual Intel® Xeon® E5-2600 v3/v4 Storage Server with 16 x 2.5" NVMe SSDs and 2 x PCIe Gen III x8 Slots



CE FCC

Features

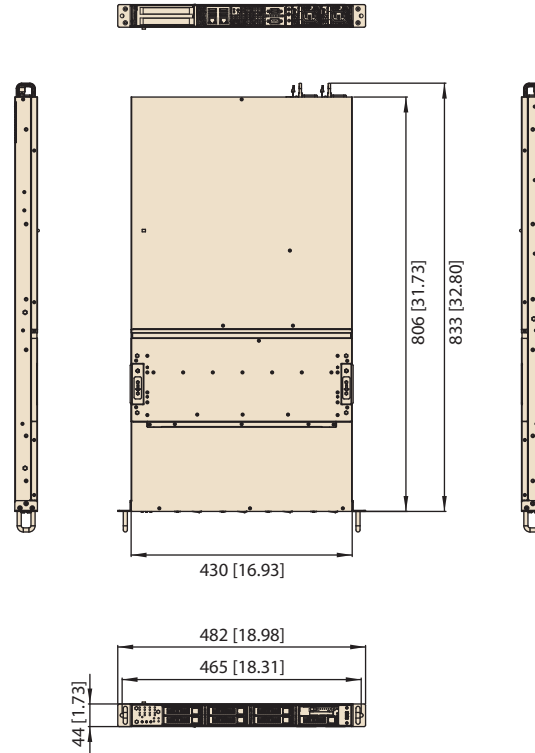
- Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/v4 processors
- 16 DDR4-2133 RDIMMs for a maximum of 512 GB
- Up to 16 x hot-swappable 2.5" NVMe/SAS/SATA drives
- Intelligent Platform Management Interface (IPMI) support
- Supports 2 x PCIe Gen III x8 cards for I/O expansion
- 1100 W 1+1 redundant power supply with 80 PLUS Platinum certification

Specifications

| | | | |
|--------------------|------------------------|--|--|
| System | Chipset | Intel® C612 | |
| | CPU | Intel® Xeon® E5-2600(v3/V4) dual processor (up to 135W TDP) | |
| | Memory | 16 x DDR4-2133 ECC RDIMMs, maximum 512 GB | |
| Graphics | Controller | ASPEED AST2400 | |
| | VRAM | 64 MB | |
| Expansion Slot | PXle x8 | 2 x PCIe Gen III x8 slots (Supports 1 x HHHL card and 1 x FHHL card) | |
| Drive Bay | 2.5" (hot swappable) | Up to 16 x NVMeS/SAS (12Gb)/SATA (6Gb) drives (Refer to the ordering information for further details.) | |
| Ethernet | Interface | 2 x 1 GB Base-T Ethernet | |
| | Controller | 2 x Intel® I210 | |
| Front I/O | USB | 1 x USB 2.0 | |
| | USB | 4 x USB 3.0 | |
| Rear I/O | PS/2 | - | |
| | COM | 1 | |
| | Display | 1 x VGA | |
| | RJ45 | 2 | |
| Internal Connector | Type-A USB | - | |
| | SATA | 2 (SATA M.2 2242) | |
| | LPC | - | |
| Watchdog Timer | Output | Interrupt, system reset | |
| | Interval | Programmable, 1~255 sec | |
| Power Supply | Power Output | 80 PLUS Platinum 1+1 redundant power supply 900W @ 100 ~ 120 V 1100W @ 200 ~ 240 V | |
| | Input Range | 100 ~ 240V _{AC} | |
| Cooling | Chassis Fan | 7 x 4056 | |
| | Air Filter | - | |
| Miscellaneous | LED Indicators | Power status, HDD activity, LAN status, location, error messages | |
| | Remote Management | Advantech Remote Monitoring Utility | |
| Environment | Temperature | Operating 0 ~ 40 °C (32~104 °F) | Non-operating -20 ~ 60 °C (-4 ~ 140 °F) |
| | Humidity | 10 ~ 85% @ 40 °C 10 ~ 95% @ 40 °C | |
| | Vibration (5 ~ 500 Hz) | 0.25 Grms - | |
| Characteristics | Dimensions (D x W x H) | 806 x 430 x 44 mm (31.7" x 16.9" x 1.7") | |

Dimensions

Unit: mm [inch]



Ordering Information

| Part Number | 2.5" Front HDD Bay | Second Row 2.5" HDD Bay | PCIe Slots | Chassis Depth | 1 GbE | IPMI | Power Supply |
|-------------------|--------------------|----------------------------------|------------|---------------|-------|------|---------------|
| ASR-3100PP-R11A1E | X8 NVMe | X8 NVMe + SATA (SAS optional) | 2 | 806 mm | 2 | Yes | 1+1 1100W RPS |
| ASR-3100PT-R11A1E | X8 NVMe | X8 SATA (SAS optional) | 2 | 806 mm | 2 | Yes | 1+1 1100W RPS |
| ASR-3100SS-R11A1E | X8 SAS+SATA | X8 SAS + SATA (x2 NVMe optional) | 1* | 806 mm | 2 | Yes | 1+1 1100W RPS |

Note:

1. One slot is occupied by the SAS12G RAID card.
2. For quality assurance purposes, the product must be sold as a complete system with the CPU, memory, and drives fully integrated and tested.

Package Contents

| Part Number | Description | Quantity |
|----------------|--|----------|
| CPU0 heatsink | Heatsink for E5-2600 series | 1 |
| CPU1 heatsink | Heatsink for E5-2600 series | 1 |
| Rail kit | 1U slide rail kit | 1 |
| CMA | Cable management arm | 1 |
| Driver CD | ASR-3100 CD with drivers and user manual | 1 |
| Startup manual | ASR-3100 startup manual | 1 |

Compatible NVMe Drives

| Part Number | Description |
|-------------------|-----------------------------------|
| 96FD25-V2TB-IN7 | Intel P3700 2.5" NVMe, 2.0TB, MLC |
| 96FD25-V1.6TB-IN7 | Intel P3700 2.5" NVMe, 1.6TB, MLC |
| 96FD25-800-IN7 | Intel P3700 2.5" NVMe, 800GB, MLC |
| 96FD25-400-IN7 | Intel P3700 2.5" NVMe, 400GB, MLC |
| TBD | Micron 9100 PRO 2.5" NVMe series |
| TBD | Micron 9100 MAX 2.5" NVMe series |
| TBD | Micron 9200 PRO 2.5" NVMe series |