***w w w . i ei w or l d .c om***

GRAND-AL

The GRAND-AL is a rackmount storage server that easily fits into a standard 19-inch rack, providing an ideal storage solution in the server room for small and medium businesses. The GRAND-AL also provides a wide range of value-added features: 4K video playback and real-time transcoding; and web automation services with IFTTT.

## *Features*

* Intel® Celeron® J3455 quad-core 1.5GHz CPU with AES-NI Encryption
* 2 x SODIMM Slots, up to 8GB memory with 2 x 4GB DIMMs
* Storage expandable via USB 3.1 Gen 1 (5Gb/s), up to 200TB

**Intel® Celeron® J3455 quad-core 1.5GHz CPU with AES-NI Encryption**

Powered by the latest 14 nm Intel® Celeron® J3455 quad-core 1.5GHz processor (burst up to 2.3 GHz), up to 8GB DDR3L RAM, four Gigabit LAN ports, and SATA 6Gb/s, the GRAND-AL runs tasks smoothly and quickly with up to 415 MB/s read/ write speeds. The GRAND-AL features Intel® AES-NI accelerated encryption to drive transfer speeds of up to 416 MB/s with AES 256- bit encryption for both full storage server volumes and shared folders, boosting system performance while ensuring the confidentiality of sensitive business data stored in the storage server.



**File Transfer with Encryption (4 x 1GbE)**

Windows Download Windows Upload

**416**

**300**



**File Transfer (4 x 1GbE)**

Windows Download Windows Upload

**415**

**390**

# Low-cost, Flexible Storage Expansion



Can be connected to 1 UX-800U-RP/ UX-1200U-RP expansion unit

**USB 3.1 Gen 1 (5Gb/s)**

UX-1200U-RP



## *Specifications*

MB/s 0

100

200 300

400





GRAND-AL-2019-V10

***Data Storage***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Model Name** | **GRAND-AL-04A** | **GRAND-AL-04A- RP** | **GRAND-AL-08B** | **GRAND-AL-08B- RP** | **GRAND-AL-12B** | **GRAND-AL-12B- RP** |
| **CPU** | Intel® Celeron® J3455 4-core 1.5GHz (burst up to 2.3GHz) | | | | | |
| **System memory** | Total memory slots: 2 SODIMM; Memory expandable up to 8GB DDR3L (4GB x 2) | | | | | |
| **Drive Trays** | 4 | | 8 | | 12 | |
| **Drive Types** | SATA 6Gb/s, 3Gb/s HDD or SSD; Hot-swappable | | | | | |
| **USB** | 4 x USB 3.1 Gen 1 (5Gb/s) (Rear) | | | | | |
| **LAN Ports** | 4 x GbE | | | | | |
| **HDMI Output** | 1 x HDMI 1.4b | | | | | |
| **LED Indicators** | System Status, HDD, Expansion, LAN | | | | | |
| **Buttons** | Power, Reset | | | | | |
| **Form Factor** | 1U, rack mountable | | 2U, rack mountable | | 2U, rack mountable | |
| **Dimensions (H x W x D)** | 44 x 439 x 499 mm  1.73 x 17.28 x 19.65 inch | | 89 x 482 x 534 mm  3.5 x 18.98 x 21.02 inch | | 89 x 482 x 534 mm  3.5 x 18.98 x 21.02 inch | |
| **Net Weight** | 7.63 kg (16.82 lbs.) | | 11.02 kg (24.29 lbs.) | | 16.14 kg (35.58 lbs.) | |
| **Temperature** | 0-40ºC | | | | | |
| **Relative Humidity** | 0~95% R.H. | | | | | |
| **Power Supply** | ATX 250W (single) ATX 250W (redundant x 2) | | ATX 250W (single) ATX 250W (redundant x 2) | | ATX 350W (single) ATX 250W (Redundant x2) | |
| **Fan** | 2 x 40mm, 12V | | DC 2 x 70mm, 12V | | DC 2 x 70mm, 12V DC | |

## *Ordering Information*

|  |  |
| --- | --- |
| **Part No.** | **Description** |
| **GRAND-AL-04A-R10** | 1U 4Bay front 3.5” HDD or SSD support, rackmount storage server system (Barebone) with Intel® Celeron® J3455, 250W single PSU, RoHS |
| **GRAND-AL-04A-RP-R10** | 1U 4Bay front 3.5” HDD or SSD support, rackmount storage server system (Barebone) with Intel® Celeron® J3455, 250W redundant PSU, RoHS |
| **GRAND-AL-08B-R10** | 2U 8Bay front 3.5” HDD or SSD support, rackmount storage server system (Barebone) with Intel® Celeron® J3455, 250W single PSU, RoHS |
| **GRAND-AL-08B-RP-R10** | 2U 8Bay front 3.5” HDD or SSD support, rackmount storage server system (Barebone) with Intel® Celeron® J3455, 250W redundant PSU, RoHS |
| **GRAND-AL-12B-R10** | 2U 12Bay front 3.5” HDD or SSD support, rackmount storage server system (Barebone) with Intel® Celeron® J3455, 350W single PSU, RoHS |
| **GRAND-AL-12B-RP-R10** | 2U 12Bay front 3.5” HDD or SSD support, rackmount storage server system (Barebone) with Intel® Celeron® J3455, 250W redundant PSU, RoHS |

***Options Packing List***

|  |  |  |
| --- | --- | --- |
| **Item** | **Order P/N** | **Description** |
| **Rail kit** | **RAIL-B02** | B02 series slide for 1U, 2U chassis |

|  |  |
| --- | --- |
| Ethernet cable x 2 | Flat head screw (for 2.5” HDD) |
| Power cord x2 (non RP model only one  power cord) | Flat head screw (for 3.5” HDD) |