

# GRAND-AL

인텔® 셀레론® J3455 쿼드코어 1.5GHz CPU (AES-NI Encryption 적용)

## Features

- » Intel® Celeron® J3455 quad-core 1.5GHz CPU with AES-NI Encryption
- » 2 x SODIMM Slots, Install up to 8GB memory with 2 x 4GB DIMMs
- » 1 x PCIe x2 slot can support 10GbE network card
- » Storage expandable via USB3.0, up to 200TB



## Specifications

|                             |   |
|-----------------------------|---|
| Form Factor                 |   |
| Form Factor                 | 2U 1U, Rackmount  |
| System                      |   |
| CPU                         | Intel® Celeron® J3455 4-core 1.5GHz (burst up to 2.3GHz)  |
| Memory                      | Slot: SODIMM x 2  |
| Memory Max.                 | 8GB   |
| Cooling method / System Fan | 12B : DC 2 x 70mm, 12V                                    |
|                             | 08B : DC 2 x 70mm, 12V                                    |
|                             | 04A : DC 2 x 40mm, 12V                                    |
| Physical Characteristics    |   |
| Rack Height                 | 2U 12bay, 8bay  |
|                             | 1U 4bay   |
| Dimensions (LxWxH) (mm)     | 12B : 89(H) x 482(W) x 534(D) mm                          |
|                             | 08B : 89(H) x 482(W) x 534(D) mm                          |
|                             | 04A : 44(H) x 439(W) x 499(D) mm                          |
| Net Weight                  | 12B : 16.14kg   |
|                             | 08B : 11.02kg   |
|                             | 04A : 7.63kg  |
| Storage                     |   |
| Storage                     | 3.5" HDD Bay(SATA 6Gb/s, 3Gb/s HDD or SSD; Hot-swappable) |
|                             | 12B: 12 Bay   |
|                             | 08B: 8 Bay  |
|                             | 04A: 4 Bay)   |
|                             | 1 x eMMC  |
| I/O Interface               |   |
| Display Output              | 1 x HDMI™(1.4b)   |
| Ethernet                    | 4 x LAN(Gbe)  |
| I/O Interface               | 4 x External USB 3.0(Rear)                                |
| Expansion                   | 1 x PCIe x 4  |

| Power                 |   |
|-----------------------|---|
| Power Consumption     | 12B : In operation: 83.52W                            |
|                       | 08B : In operation: 82.31W                            |
|                       | 04A : In operation: 39.86W                            |
| Power Supply          | 12B : 350W, 100-240V, 250W (x2), 100-240V (redundant) |
|                       | 08B : 250W, 100-240V, 250W (x2), 100-240V (redundant) |
|                       | 04A : 250W, 100-240V, 250W (x2), 100-240V (redundant) |
| Environment           |   |
| Operating Temperature | 0~40 °C   |
| Humidity              | 5 to 95% non-condensing, wet bulb : 27 °C.            |

## Ordering Information

|                     |   |
|---------------------|---|
| 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 |

## Packing List

|                                |                                |
|--------------------------------|--------------------------------|
| Ethernet Cable x 2             | Power cord x 2                 |
| Flat head screw (for 2.5" HDD) | Flat head screw (for 3.5" HDD) |