

GRAND-BDE

Powered by an advanced 14nm Intel® Xeon® D 64-bit SoC processor, up to 128GB DDR4 ECC RDIMM RAM / 64GB DDR4 non-ECC UDIMM RAM, and the 12Gb/s SAS-enabled GRAND-BDE delivers outstanding performance for data transmission and applications. With a thermal design power of only 20-65W, the GRAND-BDE fulfills demands for both performance and energy saving.



Features

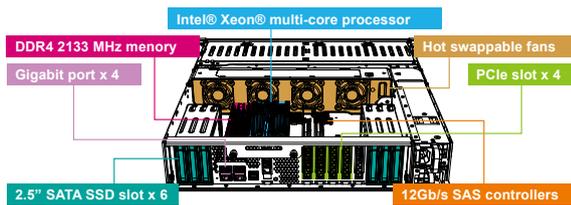
- Intel® Xeon® D processor optimizes performance and efficiency
- 4 x DIMM Slots, up to 128 GB memory with 4 x 32GB DIMMs
- 4 x PCIe slot can support 40GbE network card
- Storage expandable, up to 1PB
- 10GbE network card support ready



Excellent Hardware

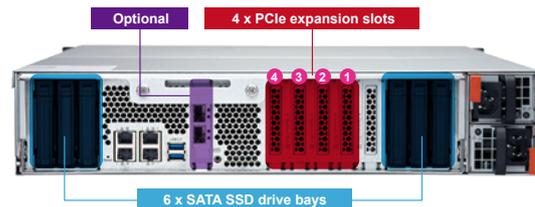
Immensely, Durable & Compact

The GRAND-BDE supports SAS 12Gb/s 2.5" drives, allowing for SAS 12Gb/s and SATA 6Gb/s hard drives and SSDs. Businesses can create the most powerful storage by implementing suitable drives based on their needs.



Expansion Capability

GRAND-BDE provide Five built-in PCIe 3.0 expansion slots provide great expandability options for 10GbE/40GbE network adapters, USB 3.2 Gen 2 (10Gb/s) and 12Gb/s SAS expansion cards, PCIe NVMe SSD - or even a graphics card.



Specifications



Model Name	GRAND-BDE-18B	GRAND-BDE-30B
CPU	Intel® Xeon® Processor D-1521, 4 core 2.4 GHz Intel® Xeon® Processor D-1531, 6 core 2.2 GHz Intel® Xeon® Processor D-1548, 8 core 2.0 GHz (for GRAND-BDE-30B only)	
Memory	Total DIMM slots: 4 Maximum memory: DDR4 128GB (32GB RDIMM x 4)	
Drive Tray SSD drive bay x 6	Front: 2.5" / 3.5" x 12 Rear: 2.5" SSD drive bay x 6	Front: 2.5" x 24 Rear: 2.5" SSD drive bay x 6
Hard Drive	Front: SAS 12Gb/s, SAS 6Gb/s, SATA 6Gb/s and SSD Rear: SATA 6Gb/s and SSD	
Network port	4 x Gigabit ports	
LEDs	10 GbE network, system status, network, drive LED	
Buttons	Power button, Reset button	
Form Factor	2U rack mount	
Dimensions (H x W x D)	88 x 442.5 x 530.5 mm 3.46 x 17.42 x 20.89 inch	88.3 x 439 x 484.5 mm 3.47 x 17.28 x 19.07 inch
Operating Temperature	0°C ~ 40°C	
Relative Humidity	5 to 95% non-condensing, wet bulb: 27°C	
Power Supply	Redundant power: input 90 to 264VAC: 450W x 2 Quantity: 4	
PCIe Expansion Slots	Slot 1: PCIe 3.0 x8 Slot 3: PCIe 3.0 x4 Slot 2: PCIe 2.0 x4 Slot 4: PCIe 3.0 x4 or PCIe 3.0 x8* Note: Slot 4 provides the bandwidth of PCIe 3.0 x8 when Slot 3 is not in use. Slot 4 then provides the bandwidth of PCIe 3.0 x4 only when an expansion board is installed in Slot 3.	
Fan	4 x 6 cm High efficiency fan	
10GbE PCIe Card Slot	Support specific 10GbE network card (P/N: LAN-10G2F-PHY-CS4227)	

Ordering Information

Part No.	Description
GRAND-BDE-18B-D1521-R10	2U 12Bay front 3.5", 6bay rear 2.5" HDD or SSD support, rackmount storage server system (Barebone) with Intel® Xeon® D-1521, 450W redundant PSU, RoHS
GRAND-BDE-18B-D1531-R10	2U 12Bay front 3.5", 6bay rear 2.5" HDD or SSD support, rackmount storage server system (Barebone) with Intel® Xeon® D-1531, 450W redundant PSU, RoHS
GRAND-BDE-30B-D1521-R10	2U 24Bay front 2.5", 6bay rear 2.5" HDD or SSD support, rackmount storage server system (Barebone) with Intel® Xeon® D-1521, with 450W redundant PSU, RoHS
GRAND-BDE-30B-D1531-R10	2U 24Bay front 2.5", 6bay rear 2.5" HDD or SSD support, rackmount storage server system (Barebone) with Intel® Xeon® D-1531, with 450W redundant PSU, RoHS
GRAND-BDE-30B-D1548-R10	2U 24Bay front 2.5", 6bay rear 2.5" HDD or SSD support, rackmount storage serversystem (Barebone) with Intel® Xeon® D-1548, with 450W redundant PSU, RoHS

*Pre-install Memory by Request

Options

Item	Item	Description
Network card	LAN-40G2SF-MLX	Dual-port 40GbE QSFP+ network expansion card
Network card	LAN-10G2SF-MLX	Dual-port 10GbE SFP+ network expansion card
Network card	LAN-10G2T-X550	Dual-port 10GBASE-T network expansion card
USB card	USB-U31A2P01	USB 3.2 Gen 2 10Gbps Type-A dual-port PCIe card
SAS Card	SAS-12G2E	Dual port storage expansion, SAS 12Gbps
Rail kit	RAIL-A03-57	A03 series (Chassis) slide, Maximum load 57 kg
Cable	CAB-SAS10M-8644	MiniSAS Cable (SFF-8644 to SFF-8644), 1.0m
	CAB-SAS05M-8644	MiniSAS Cable (SFF-8644 to SFF-8644), 0.5m

Packing List

Ethernet cable x 4	Flat head screws (for 2.5" HDD)
Power cord x 2	Flat head screws (for 3.5" HDD, GRAND-BDE-180B only)