

8 Gb Fibre Channel / 6 Gb SAS to 6 Gb SAS / SATA RDL-BD64/RDL-BS64 RAID Subsystem with dual / single controller and 6 Gb SAS expansion ports



The RDL-BD64 (dual) /BS64 (single) RAID Subsystem features high host performance to increase system efficiency and performance. It features 64 hot-swappable 6 Gb SAS/SATA hard disk drive/SSD bays in a 19-inch 4U rackmount unit.

RAIDdeluxe's enclosure is designed for maximum expandability and flexibility. RAIDdeluxe uses only common modules. For any system to be able to meet the needs of future requirements, expandability is essential. RAIDdeluxe was designed for future expandability. Connecting one RDL-BD64/BS64 JBOD to the subsystem, additional 64 hot-swappable 6 Gb SAS/SATA Hard disk drives/SSDs are possible.

With RAIDdeluxe, the power supply is cooled by a larger fan unit, for better airflow. This eliminates pockets of dead air to prevent overheating of the subsystem.

RAIDdeluxe incorporates a cableless design which means less connectors are used. Less connectors result in better signal stability. In addition, RAIDdeluxe uses high-quality connectors for maximum signal integrity. RAIDdeluxe uses an environmental control system to regulate the internal environment of the subsystem, called SES. This is useful for an easy installation and management.



Exceptional Manageability:

- The firmware-embedded Web Browser-based RAID manager allows local or remote management and configuration
- The firmware-embedded SMTP manager monitors all system events and user notification automatically
- The firmware-embedded SNMP agent allows remote to monitor events via LAN with no SNMP agent required
- Menu-driven front panel display
- Innovative modular architecture

Features:

- Areca RAID-Controller
- RAID levels 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD
- RAID level 6 provides the highest level of data protection
- Host ports (depends on model):
 - 8x 8 Gb Fibre Channel (dual controller)
 - 4x 8 Gb Fibre Channel
 - 4x 6 Gb SAS x4 (dual controller)
 - 2x 6 Gb SAS x4
- SAS-Expansion ports for additional JBOD with 64 bays
- Supports online array roaming
- Online RAID level/stripe size migration
- Online capacity expansion and RAID level migration simultaneously
- Online volume set expansion
- Supports multiple array enclosures per host connection
- Supports greater than 2 TB per volume set
- Supports greater than 2TB per disk drive
- Supports 4K bytes/sector for Windows up to 16 TB per volume set
- Supports up to 128 LUNs (volume set) per controller
- Transparent data protection for all popular operating systems
- Instant availability and background initialization
- Supports S.M.A.R.T, NCQ and OOB staggered spin-up capable drives
- Local audible event notification alarm
- Supports password protection and UPS connection
- Serial port interface for remote event notification
- Redundant flash Image for high availability
- Low power consumption

Technical Specifications

RDL-BD64/RDL-BS64 RAID Subsystem

with dual / single controller and 6 Gb SAS expansion ports

Model	RDL-BD64F8/RDL-BS64F8	RDL-BD64S6/RDL-BS64S6	RDL-JD64S6/RDL-JS64S6
Areca RAID Controller	Fibre-Channel-to-SAS	SAS-to-SAS	JBOD
Controller	Dual/Single	Dual/Single	Dual/Single
Host Interface	8/4x 8 Gb FC	4/2x miniSAS x4 (6 Gb)	4/2x miniSAS x4 (6 Gb)
Disk Interface	6 Gb SAS/SATA	6 Gb SAS/SATA	6 Gb SAS/SATA
SAS expander	4/2x miniSAS x4 (SFF-8088)	4/2x miniSAS x4 (SFF-8088)	4/2x miniSAS x4 (SFF-8088)
Capacity			
- Direct Attached	64x 3.5 LFF Disks	64x 3.5 LFF Disks	64x 3.5 LFF Disks
- Expansion	Up to 128 Disks	Up to 128 Disks	Refers to Controller specification
Processor Type	PowerPC 800 MHz	PowerPC 800 MHz	-
Cache Memory ECC DDR-II	1 GB~4 GB	1 GB~4 GB	-
Battery Backup	Optional	Optional	-
Management Port support	Yes	Yes	-
RAID Features			
RAID level	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	-
Array Group	Up to 128	Up to 128	-
LUNs	Up to 128	Up to 128	-
RAID Sets	Up to 32 Disks	Up to 32 Disks	-
Hot Spare	Yes	Yes	-
Drive Roaming	Yes	Yes	-
Online Rebuild	Yes	Yes	-
Variable Stripe Size	Yes	Yes	-
E-mail Notification	Yes	Yes	-
Online capacity expansion	Yes	Yes	-
RAID level /stripe size migration	Yes	Yes	-
Online Array roaming	Yes	Yes	-
Online consistency check	Yes	Yes	-
SMTP manager and SNMP agent	Yes	Yes	-
Redundant Flash image	Yes	Yes	-
Instant availability and background initialization	Yes	Yes	-
S.M.A.R.T. support	Yes	Yes	-
MAID 2.0	Yes	Yes	-
Bad block auto-remapping	Yes	Yes	-
Operating System			
OS independent	Yes	Yes	-
Enclosure			
Platform	Rackmount	Rackmount	Rackmount
Form Factor	4U	4U	4U
# of Hot Swap Trays	64	64	64
Tray Lock	Yes	Yes	Yes
Disk Status Indicator	Access/Fail LED	Access/Fail LED	Access/Fail LED
Backplane	SAS/SATA 6 Gb	SAS/SATA 6 Gb	SAS/SATA 6 Gb
# of Fans	15	15	15
# of PSU with Fan Modules	2x 1100 W	2x 1100 W	2x 1100 W
Power requirements	AC 90 V~254 V 50Hz~60Hz	AC 90 V~254 V 50Hz~60Hz	AC 90 V~254 V 50Hz~60Hz
Environmental			
Relative Humidity, non condensing	10%~85%	10%~85%	10%~85%
Operating Temperature	10°C~40°C	10°C~40°C	10°C~40°C
Physical Dimension (WxHxL)/mm	482.6 x 177 x 900	482.6 x 177 x 900	482.6 x 177 x 900
Weight (Without Disks)	45 kg / 43.5 kg	45 kg / 43.5 kg	45 kg / 43.5 kg