

QNAP TL- R1620Sdc HDD/SSD enclosure Black 2.5/3.5"



Model: TL-R1620SDC

Manufacturer: QNAP

EAN: 4713213519240

Product Code: 1409898

R68,595

Featuring dual controllers, an OLED indicator, and a short-depth rackmount design, the 3U 16-bay TL-R1620Sdc SAS 12Gb/s storage expansion enclosure is ideal for expanding the storage capacity of dual-controller QNAP NAS. Both controllers have three Mini-SAS HD (SFF-8644) ports, supporting 12Gbps SAS and Broadcom® SAS DataBolt™ bandwidth optimization technology. The dual path mini-SAS design sustains continuous operations even if an external JBOD cable is disconnected. Up to 7 TL-R1620Sdc units can be daisy-chained via high-speed Mini-SAS HD cables, providing scalability and high reliability for mission-critical storage of file servers, virtualization, surveillance, medium-sized data center, multimedia, and more.

Failure-resistant with a dual-controller, dual-path design

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Connect the TL-R1620Sdc to a dual-controller QNAP NAS and create a redundant cross loop configuration that provides expansion units with redundant paths to the base NAS and protection between JBOD connections. If one or more paths to the TL-R1620Sdc disconnect, other expansion units can still communicate with the base NAS. This is essential for intermachine data protection and capacity scalability for uninterrupted mission-critical enterprise tasks.

Connect up to 7 expansion units for petabyte-level storage capacity

The base NAS requires QES 2.1.1 (or later) and either Mini-SAS HD (SAS 12Gb/s SFF-8644), Mini-SAS (SAS 6Gb/s SFF-8088) ports or a PCIe-based SAS expansion card.

Highly efficient, reliable and scalable

The TL-R1620Sdc is powered by a low-power 28nm SAS35x28R SAS Expander and supports 12/6 Gb/s SAS/SATA drives. Both controllers have three Mini-SAS HD (SFF-8644) ports, and each SAS wide port combines four SAS 12Gb/s channels for up to 48Gbps bandwidth.

Supports SAS DataBolt technology, delivers 12Gb/s speed using existing 6Gb/s infrastructure

Featuring Broadcom® SAS DataBolt™ bandwidth optimization technology, the TL-R1620Sdc has an intelligent data buffer for transferring data to drives at speeds that match the performance of the host NAS. Whether the TL-R1620Sdc uses 12Gb/s or 6Gb/s drives, the NAS host will transfer data to the TL-R1620Sdc at 12Gb/s, allowing you benefit from high-speed 12Gb/s SAS transmission with existing 6Gb/s infrastructure.

Storage Management

Simply connect a TL-R1620Sdc to a dual-controller QNAP NAS and power it on. The NAS will detect the drives in the TL-R1620Sdc as newly-installed local drives. By using the Storage Manager app on the host NAS, you can configure and manage the TL-R1620Sdc's storage space by setting RAID groups, storage pools and snapshots. The TL-R1620Sdc can also be configured as the storage volume of the host NAS, allowing you to easily expand NAS storage to accommodate massive data or backup files.

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Leverage the 6Gbps SAS to SATA drive adapter to install 2.5-inch SATA SSDs

While SATA 6Gb/s SSDs provide high-performance yet affordable storage, the lack of dual-port support makes them unsuitable for dual-controller environments. The QDA-SA2 adapter allows the use of a SATA 6Gb/s drive in a 3.5-inch SAS drive bay - providing the ability to expand storage capacity by using cost-effective SATA drives. By installing a SATA drive with the QDA-SA2 into the dual-controller TL-R1620Sdc, the SATA drive can share these SAS dual-port advantages to ensure a high-availability, fault-tolerant enterprise storage environment.