QNAP TR-004U storage drive enclosure HDD/SSD enclosure Black, Grey 2.5/3.5"

Model: TR-004U

Manufacturer: QNAP

EAN: 4713213515778

Product Code: 973144

R10,752

The TR-004U USB 3.2 Gen 1 RAID expansion enclosure allows you to expand the capacity of your QNAP NAS and PC. The TR-004U can also be utilized as a DAS (Direct-attached Storage) device, allowing you to directly access its content by connecting it via USB. The TR-004U features four 3.5-inch SATA drive bays with multiple RAID configuration options and USB 3.2 Gen 1 Type-C connectivity to bring you a highly-reliable and secure storage capacity expansion solution.

Supports various RAID levels

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The TR-004U supports a variety of RAID configurations. Depending on your requirements, you can switch between hardware- or software-controlled RAID modes. Move the DIP switches to corresponding positions for your ideal RAID mode: Individual, JBOD, RAID 0, RAID 1/10 or RAID 5. You can also configure the RAID settings from your QNAP NAS, or by using the QNAP External RAID Manager utility on your computer.

Individual Mode

Treats every disk as separate storage spaces, allowing you to independently access each one.

JBOD Mode

All the disks are recognized as a single drive. This allows maximal storage utilization but provides no data protection.

RAID 0 Mode

Data is split amongst the drives. RAID 0 provides the fastest performance but does not protect data from drive failure.

RAID 1/10 Mode

Half of the total storage capacity is used to store data, and the other half keeps a copy of this data. This provides high data protection at the cost of only being able to use half the installed storage space.

RAID 5 Mode

RAID 5 requires at least three drives to use and parity information is distributed among the drives, providing optimized storage capacity and protection against one disk failing.

Software Ctrl Mode

Use this mode to control the RAID configuration from your NAS or computer.

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Flexible storage configuration and management

Compared with other RAID enclosures, the TR-004U provides software-controlled configurations for greater management flexibility. Users can configure RAID and monitor disk health using the Storage & Snapshots Manager on a QNAP NAS, or by using the QNAP External RAID Manager utility on their computer.

Versatile usage scenarios to meet storage expansion needs

The TR-004U meets many storage expansion requirements for home and work use, including:

Scenario 1: Expand the capacity of your NAS

The TR-004U provides an alternative method for users to expand their rackmount NAS storage capacity. By connecting the TR-004U to their NAS and using the Storage & Snapshots Manager, users can easily configure and manage their storage expansion. The TR-004U supports a variety of QNAP NAS storage and file management functions, allowing users to build storage pools, find files with Qsirch and organize files with Qfiling.

Use the TR-004U as an alternative to conventional NAS expansion enclosures

As an external hardware RAID device, the TR-004U operates independently and does not require additional NAS system resources. When compared with the UX-500P expansion enclosure, the TR-004U uses less NAS system resources.

Scenario 2: External storage for your NAS

Instead of using the TR-004U to expand the capacity of your QNAP NAS, you can use it as a complimentary storage unit for backing up or moving data. It also allows you to physically migrate huge data collections that would require significant network bandwidth. While connected to the NAS, you can monitor the health and status of the TR-004U by using the Storage & Snapshots Manager on the NAS.

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Scenario 3: Expand the storage space of your computer and server

The TR-004U can quickly add storage space to your computer and server. You can use the DIP switch to configure a hardware RAID mode or manage it by using the QNAP External RAID Manager utility. The health and status of the TR-004U can also be monitored by using the QNAP External RAID Manager utility.
*The QNAP External RAID Manager requires Windows 7 (or later), Windows Server 2012 R2 (or later) and macOS 10.13 (or later).

Scenario 4: Cross-platform file sharing

From your NAS to Windows, Mac, and Linux computers, the TR-004U is compatible with a wide range of devices. This makes it ideal for quickly moving large files between different devices. The TR-004U is even compatible with devices that use the exFAT file system*, adding further convenience for accessing and sharing files from a wider range of devices.
*To access devices that use the exFAT file system, users must purchase a separate exFAT driver license.

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