

TR-Series USB RAID Enclosures –

Hardware RAID with Software Configuration.
Expand your way with TR-002 / TR-004 / TR-004U

Configure once, use anywhere – consistent RAID behavior across all connected devices.

Expand. Connect. Protect.



TR-002



TR-004



TR-004U



Lockable trays with keys



Expand With Confidence

TR-002 / TR-004 / TR-004U USB RAID Expansion Enclosures

Easily expand the storage capacity of your QNAP NAS or PC with the versatile TR series. All three models support DAS (Direct-Attached Storage) functionality, enabling direct access to your data via USB connection – no network required. With support for multiple RAID configurations and high-speed USB connectivity, the TR series offers a secure and reliable expansion solution tailored to different needs.

Main Features:

- USB 3.2 Gen 1 / Gen 2 Type-C interface.
- Supports 3.5-inch SATA HDDs and 2.5-inch SATA SSDs.
- Disk mode DIP switch for switching between hardware and software-controlled RAID modes.
- Bundled with QNAP External RAID Manager – our exclusive utility for easy, driver-free RAID configuration.
- Lockable drive trays to prevent accidental removal.
- Versatile storage expansion for QNAP NAS and direct-attached (DAS) use.
- Cross-platform compatibility for Windows, macOS, and Linux.



macOS



Windows



Linux



NAS



	TR-002	TR-004	TR-004U
EAN/UPC	EAN: 4713213515310 UPC: 885022017249	EAN: 4713213514429 UPC: 885022016358	EAN: 4713213515778 UPC: 885022017706
Connection Interface	USB		
Drive	2 x 3.5-inch	4 x 3.5-inch	
Drive Compatibility	The system is shipped without HDD. For the HDD compatibility list, please visit https://www.qnap.com/compatibility 3.5-inch SATA 6Gb/s, 3Gb/s HDD 2.5-inch SATA 6Gb/s, 3Gb/s SSD You can only use one disk type (HDD or SSD) in a RAID group. Combining different types of disk in one RAID group is not supported. TR-002, TR-004, and TR-004U do not support QNAP QDA-A2AR / QDA-A2MAR.		
USB Port	1 x Type-C USB 3.2 Gen 2 10Gbps	1 x Type-C USB 3.2 Gen 1 5Gbps	
Form Factor	Tower		1U Short Depth Rackmount
Dimensions (HxWxD)	168.5 × 102 × 219 mm (6.63 × 4.02 × 8.62 inch) Dimensions do not include foot pad (foot pad may be up to 30mm / 1.18 inches high depending on model)	168.5 × 160.2 × 219 mm (6.63 × 6.31 × 8.62 inch) Dimensions do not include foot pad (foot pad may be up to 30mm / 1.18 inches high depending on model)	44 × 439 × 291 mm (1.73 × 17.28 × 11.46 inch) Excludes ear hook and the protruding part of the Power Supply Unit.
Weight (Gross/Net)	2.05 kg / 4.52 lbs (Gross) 1.24 kg / 2.73 lbs (Net)	2.79 kg / 6.15 lbs (Gross) 1.63 kg / 3.59 lbs (Net)	5.67 kg / 12.5 lbs (Gross) 4.77 kg / 10.52 (Net)
Operating Temperature / Storage Temperature / Relative Humidity	0 - 40 °C (32°F - 104°F) -20 - 70°C (-4°F - 158°F) 5-95% RH non-condensing, wet bulb: 27°C (80.6°F)		
Power Supply Unit	Minimum 36W adapter (12VDC), 100-240VAC	Minimum 60W adapter (12VDC), 100-240VAC	Internal 100W Power Supply
Power Consumption	2.98 W (HDD Sleep Mode) 10.15 W (Operating Mode, Typical) Tested with drives fully populated.	4.17 W (HDD Sleep Mode) 18.21 W (Operating Mode, Typical) Tested with drives fully populated.	4.79 W (HDD Sleep Mode) 18.9 W (Operating Mode, Typical) Tested with drives fully populated.
Fan	1 x 70mm, 12VDC	1 x 120mm, 12VDC	2 x 40mm, 12VDC
Warranty	2 years		3 years
System Modes	Individual, JBOD, hardware RAID 0/1, Software control (Software control requires a QNAP NAS or Windows/macOS utility)	Individual, JBOD, hardware RAID 0/1/5/10, Software control (Software control requires a QNAP NAS or Windows/macOS utility)	
Features	System, fan, and drive failure monitoring with LED and audio alerts. System sleep* during USB cable disconnection and host device hibernation** or shut down. *RAID rebuild delays the sleep. **Some hosts may not be supported.	System, fan, and drive failure monitoring with LED and audio alerts. System sleep during USB cable disconnection and host device hibernation* or shut down. *Some hosts may not be supported. The unused disk drives automatically become the hot spare ones for the RAID 1 and RAID 5 types.	
Minimum operating system requirements	QNAP NAS: QTS 4.3.6 and later Windows: Windows 8.1 and later, Windows Server 2012 R2 and later Mac: macOS 10.13 and later	QNAP NAS: QTS 4.3.6 and later Windows: Windows 8.1 and later Mac: macOS 10.11 and later	QNAP NAS: QTS 4.3.6 and later Windows: Windows 8.1 and later, Windows Server 2012 R2 and later Mac: macOS 10.13 and later
System fan	5-speed automatic fan control		
Software utility	Windows/macOS: QNAP External RAID Manager		

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