

# QNAP TDS-h2489FU NAS Teline ( 2U ) Intel® Xeon Silver 4314 512 GB DDR4 QuTS hero musta, Hopea

**Tuotemerkki :** QNAP

**Tuotekoodi:** TDS-H2489FU-4314-512G

**Tuotteen nimi :** TDS-h2489FU

QNAP TDS-h2489FU. Malli: NAS. Alustatyyppi: Teline ( 2U ). Laitteen luokka: Suuryritys. Suoritinperhe: Intel® Xeon Silver, Prosessorimalli: 4314, Prosessorin taajuus: 2,4 GHz. Sisäinen muisti: 512 GB, Sisäisen muistin tyyppi: DDR4. Käyttöjärjestelmä asennettu: QuTS hero



| Storage                              |   | Design                       |  |
|--------------------------------------|---|------------------------------|--|
| Supported storage drive interfaces   | M.2, Serial ATA, Serial ATA II, Serial ATA III, U.2 | Product colour               | Black, Silver  |
| Storage drive sizes supported        | 2.5,M.2   | Number of fans               | 6 fan(s)   |
| Number of M.2 (M & B) slots          | 2   | Fan diameter                 | 6 cm   |
| RAID support *                       | ✓   | LED indicators               | Fan, Power, SSD, Status, Yes                                 |
| RAID levels                          | 0, 1, 5, 6, 10, 50, 60, JBOD                        | Built-in display             | ✓  |
| Online RAID expansion                | ✓   | Display type                 | OLED   |
| RAID rebuild                         | ✓   | Performance                  |  |
| Hot-swap drive bays                  | ✓   | Type *                       | NAS  |
| Supported file systems               | FAT32, HFS+, NTFS, exFAT, ext3, ext4                | Device class *               | Large Enterprise Business                                    |
| Storage drives installed *           | ✗   | Backup function *            | ✓  |
| Number of storage drives supported * | 24  | Backup features              | Cloud, iSCSI LUN   |
| Installed storage drive type *       | ✗   | Buzzer                       | ✓  |
| Supported storage drive types *      | HDD & SSD   | Multilingual support         | ✓  |
| Auto-rebuild                         | ✓   | Snapshot                     | ✓  |
| Disk roaming                         | ✓   | Security algorithms          | 256-bit AES, AES, FIPS 140-2, SNMPv2, SNMPv3, TLS            |
| Processor                            |   | Access Control List (ACL)    | ✓  |
| Processor manufacturer *             | Intel   | Reset button                 | ✓  |
| Processor family *                   | Intel Xeon Silver                                   | On/off switch                | ✓  |
| Processor model *                    | 4314  | Built-in FTP server          | ✓  |
| Processor frequency *                | 2.4 GHz   | Browser supported            | Apple Safari, Google Chrome, Microsoft Edge, Mozilla Firefox |
| Processor boost frequency            | 3.4 GHz   | System log                   | ✓  |
| Processor cores                      | 16  | Hot spare                    | ✓  |
| Processor threads                    | 32  | S.M.A.R.T. support           | ✓  |
| Processor cache                      | 24 MB   | Software                     |  |
| Memory                               |   | Operating system installed * | QuTS hero  |
| Internal memory *                    | 512 GB  | Operating system version     | h5.0.0   |
| Internal memory type                 | DDR4  |                              |  |
| Maximum RAM supported                | 1 TB  |                              |  |
| Memory slots                         | 32  |                              |  |
| Memory form factor                   | RDIMM   |                              |  |
| ECC                                  | ✓   |                              |  |
| Flash memory                         | 5000 MB   |                              |  |

| Network   |                               | Software   |                                    |
|---|-------------------------------|--|------------------------------------|
| Ethernet LAN *                                  | ✓                             | Windows operating systems supported  |                                    |
| Ethernet LAN data rates                         | 10,100,1000,2500,25000 Mbit/s |  |                                    |
| DHCP server                                     | ✓                             |  |                                    |
| Jumbo frames support                            | ✓                             |  |                                    |
| iSCSI support                                   | ✓                             |  |                                    |
| Wake-on-LAN ready                               | ✓                             |  |                                    |
| Supported network protocols                     | IPv4, IPv6                    |  |                                    |
| Dynamic DNS (DDNS)                              | ✓                             | Linux operating systems supported  |                                    |
| <b>Ports &amp; interfaces</b>                   |                               |  |                                    |
| USB port *                                      | ✓                             |  |                                    |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 4                             |  |                                    |
| Fiber ports quantity                            | 2                             |  |                                    |
| Fiber optic connector                           | SFP28                         |  |                                    |
| Ethernet LAN (RJ-45) ports *                    | 4                             |  |                                    |
| Concurrent connections                          | 10000                         | Mac operating systems supported  |                                    |
| PCI Express x8 (Gen 4.x) slots                  | 1                             |  |                                    |
| PCI Express x16 (Gen 4.x) slots                 | 1                             |  |                                    |
| <b>Design</b>                                   |                               |  |                                    |
| Chassis type *                                  | Rack (2U)                     |  | Server operating systems supported |
| Cooling type *                                  | Active                        |  |                                    |
|   |                               |  |                                    |
|   |                               | Other operating systems supported  |                                    |
|   |                               | Windows operating systems supported  |                                    |
|   |                               | Windows 10, Windows 10 Education, Windows 10 Education x64, Windows 10 Enterprise, Windows 10 Enterprise x64, Windows 10 Home, Windows 10 Home x64, Windows 10 IOT Core, Windows 10 IoT Enterprise, Windows 10 Pro, Windows 10 Pro x64, Windows 10 x64, Windows 7, Windows 7 Enterprise, Windows 7 Enterprise x64, Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Home Premium x64, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 7 x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64 |                                    |
|   |                               | CentOS 7.0, SuSE Linux 12.0, SuSE Linux 12.3, Ubuntu 14.04, Ubuntu 14.10, Ubuntu 15.04, Ubuntu 15.10, Ubuntu 16.04, Ubuntu 16.10, Ubuntu 17.10   |                                    |
|   |                               | Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.12 Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.15 Catalina, Mac OS X 10.15.3 Catalina, Mac OS X 11.0 Big Sur  |                                    |
|   |                               | Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019  |                                    |
|   |                               | IBM AIX 7.1, IBM AIX 7.2, Solaris 10, Solaris 11   |                                    |
|   |                               | <b>Power</b>   |                                    |
| Power supply location                           |                               | Built-in   |                                    |
| Power supply unit (PSU) capacity                |                               | 1200 W   |                                    |
| Number of power supply units                    |                               | 2  |                                    |
| Power consumption (typical)                     |                               | 467.59 W   |                                    |
| AC input voltage                                |                               | 100 - 240 V  |                                    |
| Fan voltage                                     |                               | 12 V   |                                    |
|   |                               | <b>Weight &amp; dimensions</b>   |                                    |
| Width *   |                               | 446.2 mm   |                                    |
| Depth *   |                               | 713.2 mm   |                                    |
| Height *  |                               | 88.3 mm  |                                    |
| Weight  |                               | 21.3 kg  |                                    |
| Package weight                                  |                               | 27.6 kg  |                                    |
|   |                               | <b>Packaging content</b>   |                                    |
| Cables included                                 |                               | AC, LAN (RJ-45)  |                                    |
| Power cables quantity                           |                               | 2  |                                    |
| Rack mount kit                                  |                               | ✓  |                                    |
| Number of screws                                |                               | 98   |                                    |
| Drive tray key included                         |                               | ✓  |                                    |
|   |                               | <b>Operational conditions</b>  |                                    |
| Operating temperature (T-T)                     |                               | 0 - 35 °C  |                                    |
| Operating relative humidity (H-H)               |                               | 5 - 95%  |                                    |
| Storage temperature (T-T)                       |                               | -20 - 70 °C  |                                    |



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