



QNAP TS-h686 NAS Tower Intel® Xeon® D D-1602 8 GB DDR4 40 TB HDD QuTS hero Black



Brand : QNAP

Product code: TS-H686-D1602-8G/40TB-REDPLUS

Product name : TS-h686

Intel Xeon D-1602 (2x 2.5GHz), 8GB DDR4, 5GB Flash, 4x 2.5"/3.5" + 2x 2.5", 2x M.2, 4x 2.5G RJ-45, 3x USB 3.2 Gen1

QNAP TS-h686. Type: NAS. Chassis type: Tower. Device class: Home & Home Office. Processor family: Intel® Xeon® D, Processor model: D-1602, Processor frequency: 2.5 GHz. Internal memory: 8 GB, Internal memory type: DDR4. Total installed storage capacity: 40 TB, Installed storage drive type: HDD. Operating system installed: QuTS hero

| Storage | | Performance | |
|--------------------------------------|---|-------------------------------------|--|
| Storage drive capacity * | 4 TB | Backup function * | ✓ |
| Storage drive interface * | Serial ATA II, Serial ATA III | Backup features | Cloud, iSCSI LUN |
| Supported storage drive interfaces | M.2, Serial ATA II, Serial ATA III | Buzzer | ✓ |
| Storage drive sizes supported | 2.5,3.5,M.2 | Multilingual support | ✓ |
| Number of M.2 (M & B) slots | 2 | Noise level | 18.6 dB |
| RAID support * | ✓ | Snapshot | ✓ |
| RAID levels | 0, 1, 5, 6, 10, 50, 60, JBOD | Management protocols | SNMP 2/3 |
| Online RAID migration | ✓ | Web-based management | ✓ |
| Online RAID expansion | ✓ | Security algorithms | 256-bit AES, AES, FIPS 140-2, HTTPS, SSH, SSL/TLS |
| RAID rebuild | ✓ | Access Control List (ACL) | ✓ |
| Hot-swap drive bays | ✓ | Reset button | ✓ |
| Supported file systems | FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4 | On/off switch | ✓ |
| Storage drives installed * | ✓ | Built-in FTP server | ✓ |
| Total installed storage capacity * | 40 TB | Browser supported | Safari, Chrome, Internet Explorer, Firefox |
| Number of storage drives installed * | 4 | System log | ✓ |
| Number of storage drives supported * | 6 | Hot spare | ✓ |
| Installed storage drive type * | HDD | S.M.A.R.T. support | ✓ |
| Supported storage drive types * | HDD & SSD | Share folder | CIFS/SMB |
| Bad block scan | ✓ | Universal Plug and Play (UPnP) | ✓ |
| Disk roaming | ✓ | USB copy function | ✓ |
| Processor | | Software | |
| Processor manufacturer * | Intel | Operating system installed * | QuTS hero |
| Processor family * | Intel® Xeon® D | Operating system version | h5.0.0 |
| Processor model * | D-1602 | Windows operating systems supported | Windows 10, Windows 7, Windows 8 |
| Processor frequency * | 2.5 GHz | Linux operating systems supported | CentOS 7.0, Ubuntu 14.04, openSUSE 12.1, openSUSE 12.2 |
| Processor boost frequency | 3.2 GHz | Mac operating systems supported | 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, Mac OS X 12.0 Monterey, Mac OS X 13.0 Ventura |
| Processor cores | 2 | | |
| Processor threads | 4 | | |
| Processor cache | 3 MB | | |
| CPU configuration (max) | 1 | | |
| Memory | | | |
| Internal memory * | 8 GB | | |
| Internal memory type | DDR4 | | |

| | | | |
|---|----------------------------|---|---|
| Memory | | Software | |
| Maximum RAM supported | 128 GB | Server operating systems supported | Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 |
| Memory slots | 4 | | |
| Memory form factor | UDIMM | | |
| ECC | ✓ | | |
| Flash memory | 5000 MB | Power | |
| Network | | Power supply location | Built-in |
| Ethernet LAN * | ✓ | Power supply unit (PSU) capacity | 250 W |
| Ethernet LAN data rates | 10,100,1000,2500 Mbit/s | Number of power supply units | 1 |
| DHCP client | ✓ | Power consumption (typical) | 61.115 W |
| DHCP server | ✓ | AC input voltage | 100 - 240 V |
| Jumbo frames support | ✓ | Fan voltage | 12 V |
| iSCSI support | ✓ | Weight & dimensions | |
| Wake-on-LAN ready | ✓ | Width * | 224.9 mm |
| Dynamic DNS (DDNS) | ✓ | Depth * | 319.8 mm |
| Ports & interfaces | | Height * | 231.9 mm |
| USB port * | ✓ | Packaging content | |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 3 | Cables included | AC, LAN (RJ-45) |
| Ethernet LAN (RJ-45) ports * | 4 | Power cables quantity | 1 |
| PCI Express x8 (Gen 3.x) slots | 2 | Number of screws | 24 |
| Design | | Drive tray key included | ✓ |
| Chassis type * | Tower | Processor special features | |
| Cooling type * | Active | Embedded options available | ✗ |
| Product colour | Black | Enhanced Intel SpeedStep Technology | ✓ |
| Number of fans | 2 fan(s) | Execute Disable Bit | ✓ |
| Fan diameter | 9 cm | Idle States | ✓ |
| Fan diameter 2 | 9.7 cm | Intel 64 | ✓ |
| LED indicators | HDD, LAN, SSD, Status, USB | Intel QuickAssist Technology | ✗ |
| Built-in display | ✗ | Intel Trusted Execution Technology | ✓ |
| Cable lock slot | ✓ | Intel TSX-NI | ✓ |
| Cable lock slot type | Kensington | Intel Virtualization Technology (VT-x) | ✓ |
| Performance | | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Type * | NAS | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Device class * | Home & Home Office | Operational conditions | |
| | | Operating temperature (T-T) | 0 - 40 °C |
| | | Operating relative humidity (H-H) | 5 - 95% |
| | | Storage temperature (T-T) | -20 - 70 °C |
| | | Storage relative humidity (H-H) | 5 - 95% |
| | | Logistics data | |
| | | Harmonized System (HS) code | 84714100 |

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