QNAP TS-H686-D1602-8G NAS Tower Ethernet LAN Black D-1602

Brand : QNAP **Product code:** TS-H686-D1602-8G/56TB-EXOS

Product name : TS-H686-D1602-8G

- Four 2.5GbE ports accelerate file sharing across teams and devices, virtual machine applications or multimedia transmission
- DDR4 ECC memory detects and corrects single-bit memory errors, demonstrating high reliability for crucial applications
- Two M.2 NVMe Gen 3 x4 SSD slots (each slot providing up to 3.2 GB/s bandwidth) enable SSD caching to boost random read/write performance
- Two PCIe slots allow for 5GbE/10GbE/25GbE/40GbE adapters, QM2 cards, or entry-level graphics cards to increase application performance
- Scalable storage supporting virtual machines, containerized apps, centralized storage, backup, sharing, and disaster recovery
- QuTS hero combines ZFS advantages with the QTS App Center ecosystem to empower your business
Xeon D-1602 2.5 GHz, 8 GB DDR4, 5GB, 4x 3.5" + 2x 2.5", 2x M.2, 4x 2.5G LAN, 3x USB 3.2, 231.9x224.9x319.8 mm

Storage	
Supported storage drive interfaces	Serial ATA II, Serial ATA III
Storage drive sizes supported	2.5,3.5"
Number of M.2 (M & B) slots	2
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, 50, 60
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, ZFS, ext3, ext4
Storage drives installed *	✓
Total installed storage capacity *	56 TB
Number of storage drives supported *	6
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Bad block scan	✓
Disk roaming	✓

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Xeon® D
Processor model *	D-1602
Processor frequency *	2.5 GHz
Processor boost frequency	3.2 GHz
Processor cores	2
Processor threads	4
Processor cache	3 MB
CPU configuration (max)	1

Memory	
Internal memory type	DDR4
Maximum RAM supported	128 GB
Memory slots	4
Internal memory *	8 GB
Memory form factor	UDIMM
Flash memory	5000 MB

Network	
Ethernet LAN *	✓
Ethernet LAN data rates	100,1000,2500 Mbit/s
DHCP client	✓

Performance	
Backup function *	✓
Backup features	Cloud, iSCSI LUN
Buzzer	✓
Multilingual support	✓
Noise level	18.6 dB
Snapshot	✓
Web-based management	✓
Security algorithms	256-bit AES, AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in FTP server	✓
Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
System log	✓
Hot spare	✓
S.M.A.R.T. support	✓
Share folder	CIFS/SMB
Universal Plug and Play (UPnP)	✓
USB copy function	✓

Software	
Operating system version	4.5.0
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✓
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
Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	250 W
Number of power supply units	1
Power consumption (typical)	61.115 W
AC input voltage	100 - 240 V

Network	
DHCP server	✓
Jumbo frames support	✓
Supported network protocols	TCP/IP, HTTP/HTTPS
WLAN adapter supported	✓

Ports & interfaces	
USB port *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4
Ethernet LAN (RJ-45) ports *	4
PCI Express x8 (Gen 3.x) slots	2

Design	
Chassis type *	Tower
Cooling type *	Active
Product colour	Black
Number of fans	2 fan(s)
Fan diameter	8 cm
Fan diameter 2	9.7 cm
LED indicators	HDD, SSD, Status
Cable lock slot	✓
Cable lock slot type	Kensington

Performance	
Type *	NAS
Device class *	Large Enterprise Business

Power	
AC input frequency	50 - 60 Hz

Weight & dimensions	
Width *	224.9 mm
Depth *	319.8 mm
Height *	231.9 mm
Weight	7.27 kg

Packaging content	
Cables included	AC, LAN (RJ-45)
Number of screws	30

Processor special features	
Embedded options available	✗
Enhanced Intel SpeedStep Technology	✓
Execute Disable Bit	✓
Idle States	✓
Intel 64	✓
Intel QuickAssist Technology	✗
Intel Trusted Execution Technology	✓
Intel TSX-NI	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel VT-x with Extended Page Tables (EPT)	✓

Operational conditions	
Operating temperature (T-T)	0 - 35 °C
Operating relative humidity (H-H)	5 - 95%

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 25-MAR-2024. Prints or copies of Information are only valid on the printed Publication date