



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



**Brand :** QNAP

**Product code:** TS-H686-D1602-8G/8TB-GOLD

**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: 8 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 *	8 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		

<b>Memory</b>		<b>Software</b>	
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	<b>Power</b>	
<b>Network</b>		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	✓	<b>Weight &amp; dimensions</b>	
Wake-on-LAN ready	✓	Width *	224.9 mm
Dynamic DNS (DDNS)	✓	Depth *	319.8 mm
<b>Ports &amp; interfaces</b>		Height *	231.9 mm
USB port *	✓	<b>Packaging content</b>	
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
<b>Design</b>		Drive tray key included	✓
Chassis type *	Tower	<b>Processor special features</b>	
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)	✓
<b>Performance</b>		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Type *	NAS	Intel VT-x with Extended Page Tables (EPT)	✓
Device class *	Home & Home Office	<b>Operational conditions</b>	
		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%
		<b>Logistics data</b>	
		Harmonized System (HS) code	84714100

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