



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



Brand : QNAP

Product code: TS-H686-D1602-8G/16TB-REDPRO

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		Performance	
Supported storage drive interfaces	Serial ATA II, Serial ATA III	Backup function *	✓
Storage drive sizes supported	2.5,3.5"	Backup features	Cloud, iSCSI LUN
Number of M.2 (M & B) slots	2	Buzzer	✓
RAID support *	✓	Multilingual support	✓
RAID levels	0, 1, 5, 6, 10, 50, 60	Noise level	18.6 dB
Online RAID migration	✓	Snapshot	✓
Online RAID expansion	✓	Web-based management	✓
RAID rebuild	✓	Security algorithms	256-bit AES, AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Hot-swap drive bays	✓	Access Control List (ACL)	✓
Supported file systems	FAT32, HFS+, NTFS, ZFS, ext3, ext4	Reset button	✓
Storage drives installed *	✓	On/off switch	✓
Total installed storage capacity *	16 TB	Built-in FTP server	✓
Number of storage drives supported *	6	Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
Installed storage drive type *	HDD	System log	✓
Supported storage drive types *	HDD & SSD	Hot spare	✓
Bad block scan	✓	S.M.A.R.T. support	✓
Disk roaming	✓	Share folder	CIFS/SMB
<b>Processor</b>		Universal Plug and Play (UPnP)	✓
Processor manufacturer *	Intel	USB copy function	✓
Processor family *	Intel® Xeon® D	<b>Software</b>	
Processor model *	D-1602	Operating system version	4.5.0
Processor frequency *	2.5 GHz	Windows operating systems supported	Windows 10, Windows 7, Windows 8
Processor boost frequency	3.2 GHz	Linux operating systems supported	✓
Processor cores	2	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
Processor threads	4	Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Processor cache	3 MB	<b>Power</b>	
CPU configuration (max)	1	Power supply location	Built-in
<b>Memory</b>		Power supply unit (PSU) capacity	250 W
Internal memory type	DDR4	Number of power supply units	1
Maximum RAM supported	128 GB	Power consumption (typical)	61.115 W
Memory slots	4	AC input voltage	100 - 240 V
Internal memory *	8 GB		
Memory form factor	UDIMM		
Flash memory	5000 MB		
<b>Network</b>			
Ethernet LAN *	✓		
Ethernet LAN data rates	100,1000,2500 Mbit/s		
DHCP client	✓		

<b>Network</b>		<b>Power</b>	
DHCP server	✓	AC input frequency	50 - 60 Hz
Jumbo frames support	✓	<b>Weight &amp; dimensions</b>	
Supported network protocols	TCP/IP, HTTP/HTTPS	Width *	224.9 mm
WLAN adapter supported	✓	Depth *	319.8 mm
<b>Ports &amp; interfaces</b>		Height *	231.9 mm
USB port *	✓	Weight	7.27 kg
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	<b>Packaging content</b>	
Ethernet LAN (RJ-45) ports *	4	Cables included	AC, LAN (RJ-45)
PCI Express x8 (Gen 3.x) slots	2	Number of screws	30
<b>Design</b>		<b>Processor special features</b>	
Chassis type *	Tower	Embedded options available	✗
Cooling type *	Active	Enhanced Intel SpeedStep Technology	✓
Product colour	Black	Execute Disable Bit	✓
Number of fans	2 fan(s)	Idle States	✓
Fan diameter	8 cm	Intel 64	✓
Fan diameter 2	9.7 cm	Intel QuickAssist Technology	✗
LED indicators	HDD, SSD, Status	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 *	Large Enterprise Business	<b>Operational conditions</b>	
		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