



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



Brand : QNAP

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

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