QNAP TS-h686 NAS Tower Ethernet LAN Black D-1602

Brand : QNAP **Product code:** TS-H686-D1602-8G/24TB-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. Total installed storage capacity: 24 TB, Installed storage drive type: HDD, Supported storage drive types: HDD & SSD. Processor family: Intel® Xeon® D, Processor manufacturer: Intel, Processor model: D-1602. Internal memory: 8 GB, Internal memory type: DDR4, Maximum RAM supported: 128 GB. Ethernet LAN data rates: 10,100,1000,2500 Mbit/s. Chassis type: Tower, Cooling type: Active, Product colour: Black

Storage	
Storage drive capacity *	4 TB
Storage drive interface *	Serial ATA II, Serial ATA III
Supported storage drive interfaces	M.2, Serial ATA II, Serial ATA III
Storage drive sizes supported	2.5,3.5,M.2
Number of M.2 (M & B) slots	2
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4
Storage drives installed *	✓
Total installed storage capacity *	24 TB
Number of storage drives installed *	4
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
ECC	✓
Flash memory	5000 MB

Network	
Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000,2500 Mbit/s
DHCP client	✓

Performance	
Backup function *	✓
Backup features	Cloud, iSCSI LUN
Buzzer	✓
Multilingual support	✓
Noise level	18.6 dB
Snapshot	✓
Management protocols	SNMP 2/3
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	Safari, Chrome, Internet Explorer, 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 installed *	QuTS hero
Operating system version	h5.0.0
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✓
Mac operating systems supported	✓
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
Fan voltage	12 V

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

Network	
DHCP server	✓
Jumbo frames support	✓
iSCSI support	✓
Wake-on-LAN ready	✓
Dynamic DNS (DDNS)	✓

Ports & interfaces	
USB port *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	3
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	9 cm
Fan diameter 2	9.7 cm
LED indicators	HDD, LAN, SSD, Status, USB
Built-in display	✗
Cable lock slot	✓
Cable lock slot type	Kensington

Performance	
Type *	NAS
Device class *	Home & Home Office

Packaging content	
Cables included	AC, LAN (RJ-45)
Power cables quantity	1
Number of screws	24
Drive tray key included	✓

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 - 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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