



QNAP TS-h686 NAS Tower Intel® Xeon® D D-1602 8 GB DDR4 48 TB HDD QuTS hero Black



Brand : QNAP

Product code: TS-H686-D1602-8G/48TB-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: 48 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 *	48 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		

Memory		Software	
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	Power	
Network		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	✓	Weight & dimensions	
Wake-on-LAN ready	✓	Width *	224.9 mm
Dynamic DNS (DDNS)	✓	Depth *	319.8 mm
Ports & interfaces		Height *	231.9 mm
USB port *	✓	Packaging content	
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
Design		Drive tray key included	✓
Chassis type *	Tower	Processor special features	
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)	✓
Performance		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Type *	NAS	Intel VT-x with Extended Page Tables (EPT)	✓
Device class *	Home & Home Office	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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Publication date: 11-DEC-2024. Prints or copies of Information are only valid on the printed Publication date