

# QNAP TVS-h1688X NAS Tower Intel® Xeon® W-1250 32 GB DDR4 0 TB QuTS hero musta



**Tuotemerkki :** QNAP

**Tuotekoodi:** TVS-H1688X-W1250-32G

**Tuotteen nimi :** TVS-h1688X

QNAP TVS-h1688X. Malli: NAS. Alustatyyppi: Tower. Laitteen luokka: Pienet & Keskikokoiset Yritykset. Suoritinperhe: Intel® Xeon®, Prosessorimalli: W-1250, Prosessorin taajuus: 3,3 GHz. Sisäinen muisti: 32 GB, Sisäisen muistin tyyppi: DDR4. Asennetun muistin kokonaiskapasiteetti: 0 TB. Käyttöjärjestelmä asennettu: QuTS hero

Storage		Design	
Storage drive capacity *	0 GB	Display type	LCD
Supported storage drive interfaces	Serial ATA II, Serial ATA III	Cable lock slot	✓
Storage drive sizes supported	2.5,3.5,M.2	Cable lock slot type	Kensington
Number of M.2 (M & B) slots	2	Performance	
RAID support *	✓	Type *	NAS
RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD	Device class *	Small & Medium Business
Online RAID migration	✓	Backup function *	✓
Online RAID expansion	✓	Buzzer	✓
RAID rebuild	✓	Multilingual support	✓
Hot-swap drive bays	✓	Noise level	25.8 dB
Supported file systems	FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4	Third-party support	✓
Storage drives installed *	✗	Snapshot	✓
Total installed storage capacity *	0 TB	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Number of storage drives supported *	16	Access Control List (ACL)	✓
Installed storage drive type *	✗	Reset button	✓
Supported storage drive types *	HDD & SSD	On/off switch	✓
Disk roaming	✓	Built-in FTP server	✓
Processor		Browser supported	Apple Safari, Google Chrome, Internet Explorer, Mozilla Firefox
Processor manufacturer *	Intel	System log	✓
Processor family *	Intel® Xeon®	Hot spare	✓
Processor model *	W-1250	S.M.A.R.T. support	✓
Processor frequency *	3.3 GHz	USB copy function	✓
Processor boost frequency	4.7 GHz	Software	
Processor cores	6	Operating system installed *	QuTS hero
Processor threads	12	Operating system version	h5.0.0
Processor cache	12 MB		
CPU configuration (max)	1		
On-board graphics card model	Intel UHD Graphics P630		
Memory			
Internal memory *	32 GB		
Internal memory type	DDR4		
Maximum RAM supported	128 GB		
Memory slots	4		

Memory		Software	
Memory form factor	UDIMM		Windows 10, Windows 10 Education, Windows 10 Education x64, Windows 10 Enterprise, Windows 10 Enterprise x64, Windows 10 Home, Windows 10 Home x64, Windows 10 IOT Core, Windows 10 Pro, Windows 10 Pro x64, Windows 10 x64, Windows 11, Windows 11 x64, Windows 7, Windows 7 Enterprise, Windows 7 Enterprise x64, Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Home Premium x64, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 7 x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64
ECC	✓		
Flash memory	5000 MB		
Network			
Ethernet LAN *	✓		
Ethernet LAN data rates	100,1000,2500,10000 Mbit/s		
Ethernet LAN data rate supported (max)	10000 Mbit/s	Windows operating systems supported	
Copper ethernet cabling technology	10GBASE-T		
DHCP client	✓		
DHCP server	✓		
Jumbo frames support	✓		
iSCSI support	✓		
Wake-on-LAN ready	✓		
Supported network protocols	IPv4, IPv6		
Link aggregation	✓		
Load balancing system	✓		
Dynamic DNS (DDNS)	✓		
Ports & interfaces		Linux operating systems supported	
USB port *	✓		
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	4		
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2		
HDMI ports quantity	1	Mac operating systems supported	
HDMI version	1.4b		
Ethernet LAN (RJ-45) ports *	6		
Concurrent connections	10000		
PCI Express x4 (Gen 3.x) slots	2		
PCI Express x8 (Gen 3.x) slots	1	Server operating systems supported	
Design		Other operating systems supported	
Chassis type *	Tower		
Cooling type *	Active		
Product colour	Black		
Number of fans	5 fan(s)		
Fan diameter	8 cm		
Fan diameter 2	9.7 cm		
LED indicators	HDD, LAN, SSD, System, USB		
Built-in display	✓		
		Power	
		Power supply location	Built-in
		Power supply unit (PSU) capacity	550 W
		Number of power supply units	1
		Power consumption (typical)	108.67 W
		Power consumption (sleep)	91.26 W
		AC input voltage	100 - 240 V
		Fan voltage	12 V
		Weight & dimensions	
		Width *	369.9 mm
		Depth *	319.8 mm
		Height *	303.8 mm
		Weight	13.4 kg
		Package weight	16.3 kg
		Packaging content	
		Cables included	AC, LAN (RJ-45)
		Power cables quantity	1
		Quick installation guide	✓
		Number of screws	72
		Drive tray key included	✓
		Processor special features	
		Embedded options available	✗

### Processor special features

Enhanced Intel SpeedStep Technology	✓
Execute Disable Bit	✓
Idle States	✓
Intel 64	✓
Intel Clear Video Technology	✓
Intel Trusted Execution Technology	✓
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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