QNAP

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
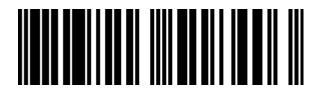
Storage

Storage drive capacity *	0 GB
Supported storage drive interfaces	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 *	0 TB
Number of storage drives supported *	16
Installed storage drive type *	✘
Supported storage drive types *	HDD & SSD
Disk roaming	✔

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Xeon®
Processor model *	W-1250
Processor frequency *	3.3 GHz
Processor boost frequency	4.7 GHz
Processor cores	6
Processor threads	12
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

Design

Display type	LCD
Cable lock slot	✔
Cable lock slot type	Kensington

Performance

Type *	NAS
Device class *	Small & Medium Business
Backup function *	✔
Buzzer	✔
Multilingual support	✔
Noise level	25.8 dB
Third-party support	✔
Snapshot	✔
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Access Control List (ACL)	✔
Reset button	✔
On/off switch	✔
Built-in FTP server	✔
Browser supported	Apple Safari, Google Chrome, Internet Explorer, Mozilla Firefox
System log	✔
Hot spare	✔
S.M.A.R.T. support	✔
USB copy function	✔

Software

Operating system installed *	QuTS hero
Operating system version	h5.0.0

Memory

Memory form factor	UDIMM
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
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

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
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

Design

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	✔

Software

Windows operating systems supported	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
Linux operating systems supported	CentOS 7.0, SuSE Linux 12.0, SuSE Linux 12.3, SuSE Linux 15, Ubuntu 14.04, Ubuntu 14.10, Ubuntu 15.04, Ubuntu 15.10, Ubuntu 16.04, Ubuntu 16.10, Ubuntu 17.10, Ubuntu 18.04 LTS, Ubuntu 20.04 LTS
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 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks, Mac OS X 11.0 Big Sur
Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Other operating systems supported	IBM AIX 7.1, IBM AIX 7.2, Solaris 10, Solaris 11

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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