QNAP

QNAP TVS-471 NAS Tower Intel® Core™ i3 i3-4150 4 GB DDR3 16 TB HDD QNAP Turbo System Black

Brand : QNAP

Product name : TVS-471

Product code: TVS-471-I3-4G + 1X 0S03678

TVS-471, i3-4150, 4GB DDR3, 512MB Flash, 4x 2.5/3.5", SATAIII, Gigabit Ethernet, USB 3.0, HDMI, Kensington + 1x 0S03678
QNAP TVS-471. Type: NAS. Chassis type: Tower. Device class: Small & Medium Business. Processor family: Intel® Core™ i3, Processor model: i3-4150, Processor frequency: 3,5 GHz. Internal memory: 4 GB, Internal memory type: DDR3. Total installed storage capacity: 16 TB, Installed storage drive type: HDD. Operating system installed: QNAP Turbo System

Storage

Storage drive capacity *	4 TB
Storage drive interface *	Serial ATA III
Storage drive size	3.5"
RAID support *	✔
RAID levels	0, 1, 5, 6, 10
Hot-swap drive bays	✔
Supported file systems	ext3, ext4, FAT32, HFS+, NTFS
Storage drives installed *	✔
Total installed storage capacity *	16 TB
Number of storage drives installed *	4
Number of storage drives supported *	4
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD

Processor

Processor manufacturer *	Intel
Processor generation	4th gen Intel® Core™ i3
Processor family *	Intel® Core™ i3
Processor model *	i3-4150
Processor frequency *	3,5 GHz
Processor cores	2
Processor threads	4
Processor cache	3 MB
L3 cache	3 MB
Bus type	DMI
CPU configuration (max)	1
ECC supported by processor	✔
PCI Express configurations	1x16, 2x8, 1x8+2x4
PCI Express slots version	3.0
Processor cache type	Smart Cache
Processor code	SR1PJ
Processor codename	Haswell
Processor lithography	22 nm
Processor operating modes	32-bit, 64-bit
Processor package size	37.5 x 37.5 mm
Processor series	Intel Core i3-4100 Desktop series

Design

Built-in display	✔
Display type	LCD
Cable lock slot	✔
Cable lock slot type	Kensington

Performance

Type *	NAS
Device class *	Small & Medium Business
Backup function *	✔
Backup features	Cloud, iSCSI LUN
Buzzer	✔
Multilingual support	✔
Noise level	17,3 dB
Web-based management	✔
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH
Access Control List (ACL)	✔
Reset button	✔

Software

Operating system installed *	QNAP Turbo System
Operating system version	4,1
Windows operating systems supported	✔
Linux operating systems supported	✔
Mac operating systems supported	✔

Power

Power supply location	Built-in
Power supply unit (PSU) capacity	250 W
Number of power supply units	1
AC input voltage	100-240 V
AC input frequency	50 - 60 Hz
Fan voltage	12 V

Weight & dimensions

Width *	180 mm
Depth *	235 mm

Processor

Processor socket	LGA 1150 (Socket H3)
Scalability	1S
Stepping	C0
System bus rate	5 GT/s
Tcase	72 °C
Thermal Design Power (TDP)	54 W
On-board graphics card model	Intel® HD Graphics 4400
Maximum internal memory supported by processor	32 GB
Memory bandwidth supported by processor (max)	25,6 GB/s
Conflict-Free processor	✔

Memory

Internal memory *	4 GB
Internal memory type	DDR3
Maximum RAM supported	16 GB
Memory slots	2
Flash memory	512 MB

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi	✘
DHCP client	✔
DHCP server	✔
Jumbo frames support	✔
iSCSI support	✔
Wake-on-LAN ready	✔
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC

Ports & interfaces

USB port *	✔
USB 2.0 ports quantity	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	3
HDMI ports quantity	1
Ethernet LAN (RJ-45) ports *	4

Graphics

On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
On-board graphics card DirectX version	11.1
On-board graphics card ID	0x41E
Maximum on-board graphics card memory	1,024 GB
Number of displays supported (on-board graphics)	3

Design

Chassis type *	Tower
Cooling type *	Active
Product colour	Black
Number of fans	2 fan(s)
Drive bay locking	✔
LED indicators	HDD, LAN, Status, USB

Weight & dimensions

Height *	177 mm

Packaging content

Cables included	AC, LAN (RJ-45)

Processor special features

Embedded options available	✘
Enhanced Intel SpeedStep Technology	✔
Execute Disable Bit	✔
Graphics & IMC lithography	22 nm
Idle States	✔
Intel 64	✔
Intel Enhanced Halt State	✔
Intel Small Business Advantage (SBA) version	1,00
Intel Stable Image Platform Program (SIPP)	✘
Intel Stable Image Platform Program (SIPP) version	0,00
Intel Trusted Execution Technology	✘
Intel TSX-NI	✘
Intel TSX-NI version	0,00
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® InTru™ 3D Technology	✔
Intel® Quick Sync Video Technology	✔
Intel® Smart Cache	✔
Intel® Turbo Boost Technology	✘
Intel® Wireless Display (Intel® WiDi)	✔
Maximum number of PCI Express lanes	16
Thermal Monitoring Technologies	✔
Thermal solution specification	PCG 2013C
Memory channels supported by processor	Dual
Memory types supported by processor	DDR3-SDRAM

Operational conditions

Operating temperature (T-T)	0 - 40 °C
Operating relative humidity (H-H)	5 - 95%

Other features

Processor ARK ID	77486

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