QNAP TS-470 PRO NAS Tower Intel® Core™ i3 i3-3220 2 GB 16 TB HDD QNAP Turbo System Black, Grey

Brand : QNAP

Product code: TS-470 PRO + 4X ST4000NC000

Product name : TS-470 PRO

Intel Core i3-3320, 3.3GHz, 2GB RAM, 512MB Flash, 4x 2.5/3.5, 4x LAN, 2x USB 3.0, 3x USB 2.0, 2x eSATA, 1x HDMI, LCD + 4x ST4000NC000
QNAP TS-470 PRO. Type: NAS. Chassis type: Tower. Device class: Home & Home Office. Processor family: Intel® Core™ i3, Processor model: i3-3220, Processor frequency: 3.3 GHz. Internal memory: 2 GB. 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 II, Serial ATA III
Storage drive size	2.5/3.5"
RAID support *	✔
RAID levels	0, 1, 5, 6, 10, JBOD
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	3rd gen Intel® Core™ i3
Processor family *	Intel® Core™ i3
Processor model *	i3-3220
Processor frequency *	3.3 GHz
Processor cores	2
Processor threads	4
Processor cache	3 MB
L3 cache	3 MB
Bus type	DMI
CPU configuration (max)	1
CPU multiplier (bus/core ratio)	33
ECC supported by processor	✔
PCI Express configurations	1x16, 2x8
PCI Express slots version	2.0
Processor cache type	Smart Cache
Processor codename	Ivy Bridge
Processor lithography	22 nm
Processor operating modes	64-bit
Processor package size	37.5 x 37.5 mm
Processor series	Intel Core i3-3200 Desktop Series

Performance	
Backup function *	✔
Backup features	Cloud, iSCSI LUN
Buzzer	✔
Multilingual support	✔
Web-based management	✔
MAC address filtering	✔
Access Control List (ACL)	✔
Reset button	✔
On/off switch	✔

Software	
Operating system installed *	QNAP Turbo System
Windows operating systems supported	✔
Linux operating systems supported	✔
Mac operating systems supported	✔
Other operating systems supported	Android

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
Height *	177 mm

Packaging content	
Cables included	AC, LAN (RJ-45)
Quick installation guide	✔

Processor special features	
Embedded options available	✔

Processor	
Processor socket	LGA 1155 (Socket H2)
System bus rate	5 GT/s
Tcase	65.3 °C
Thermal Design Power (TDP)	55 W
On-board graphics card model	Intel® HD Graphics 2500
Maximum internal memory supported by processor	32 GB
Memory bandwidth supported by processor (max)	25.6 GB/s
Conflict-Free processor	✔

Memory	
Internal memory *	2 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	✔
Data link protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC

Ports & interfaces	
USB 2.0 ports quantity	3
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2
eSATA ports quantity	2
HDMI ports quantity	1
Ethernet LAN (RJ-45) ports *	2

Graphics	
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1050 MHz
On-board graphics card ID	0x152
Number of displays supported (on-board graphics)	3

Design	
Chassis type *	Tower
Cooling type *	Active
Product colour	Black, Grey
Number of fans	2 fan(s)
Fan diameter	9 cm
Drive bay locking	✔
LED indicators	✔
Built-in display	✔
Display type	LCD
Cable lock slot	✔
Cable lock slot type	Kensington

Performance	
Type *	NAS
Device class *	Home & Home Office

Processor special features	
Enhanced Intel SpeedStep Technology	✔
Execute Disable Bit	✔
Idle States	✔
Intel 64	✔
Intel Enhanced Halt State	✔
Intel Fast Memory Access	✔
Intel FDI Technology	✔
Intel Flex Memory Access	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	0.00
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)	✔
Intel® AES New Instructions (Intel® AES-NI)	✘
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Insider™	✔
Intel® InTru™ 3D Technology	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Quick Sync Video Technology	✔
Intel® Secure Key	✘
Intel® Turbo Boost Technology	✘
Intel® Wireless Display (Intel® WiDi)	✔
Thermal Monitoring Technologies	✔
Thermal solution specification	PCG 2011C
Memory channels supported by processor	Dual
Memory types supported by processor	DDR3-SDRAM

Operational conditions	
Operating temperature (T-T)	0 - 35 °C
Operating relative humidity (H-H)	5 - 95%

Other features	
Digital Living Network Alliance (DLNA) certified	✔
Processor ARK ID	65693

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