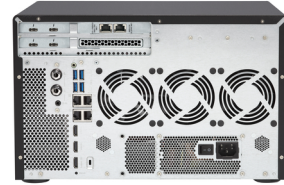**QNAP**

QNAP TVS-1282T3 NAS Tower Ethernet LAN Black i5-7500

Brand : QNAP

Product code: TVS-1282T3-I5-16G-US

Product name : TVS-1282T3

Intel Core i5-7500 (3.4/3.8GHz), 16GB DDR4 (2133MHz), GbE LAN
QNAP TVS-1282T3. Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 6, 10, 10+HS, JBOD,
Supported file systems: FAT32, HFS+, NTFS, ext3, ext4. Processor family: Intel® Core™ i5, Processor
manufacturer: Intel, Processor model: i5-7500. Internal memory: 16 GB, Internal memory type: DDR4,
Memory clock speed: 2133 MHz. Ethernet LAN data rates: 10,100,1000,10000 Mbit/s, Ethernet LAN data
rate supported (max): 10000 Mbit/s, Supported network protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP,
FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SMTP, SMSC. On-board graphics card base frequency: 350
MHz, On-board graphics card dynamic frequency (max): 1100 MHz, Maximum on-board graphics card
memory: 64 GB

Storage

RAID support *	✔
RAID levels	0, 1, 6, 10, 10+HS, JBOD
Hot-swap drive bays	✔
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4
Storage drives installed *	✘
Number of storage drives supported *	12
Installed storage drive type *	✘
Supported storage drive types *	HDD & SSD

Processor

Processor manufacturer *	Intel
Processor generation	7th gen Intel® Core™ i5
Processor family *	Intel® Core™ i5
Processor model *	i5-7500
Processor frequency *	3.4 GHz
Processor boost frequency	3.8 GHz
Processor cores	4
Processor threads	4
Processor cache	6 MB
Bus type	DMI3
CPU configuration (max)	1
ECC supported by processor	✘
PCI Express configurations	1x16, 1x8+2x4, 2x8
PCI Express slots version	3.0
Processor cache type	Smart Cache
Processor code	SR335
Processor codename	Kaby Lake
Processor lithography	14 nm
Processor operating modes	64-bit
Processor package size	37.5 x 37.5 mm
Processor series	Intel Core i5-7500 Desktop Series
Processor socket	LGA 1151 (Socket H4)
Scalability	1S
Stepping	B0
System bus rate	8 GT/s
Tjunction	100 °C

Performance

Buzzer	✔
Multilingual support	✔
Noise level	21.6 dB
Management protocols	SNMP
Web-based management	✔
Security algorithms	256-bit AES, HTTPS, SSH
Reset button	✔
On/off switch	✔
Built-in iTunes server	✔
Built-in FTP server	✔
Browser supported	Microsoft Internet Explorer 10+, Google Chrome, Apple Safari 7+, Mozilla Firefox
Hot spare	✔
S.M.A.R.T. support	✔
Remotely operated	✔

Software

Operating system installed *	QNAP Turbo System
Operating system version	4.3

Processor

Thermal Design Power (TDP)	65 W
On-board graphics card model	Intel® HD Graphics 630
Maximum internal memory supported by processor	64 GB
Conflict-Free processor	✓

Memory

Internal memory type	DDR4
Memory clock speed	2133 MHz
Maximum RAM supported	64 GB
Memory slots	4 x DIMM
Internal memory *	16 GB
Flash memory	512 MB

Network

Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 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, SMTP, SMSC

Ports & interfaces

USB port *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	5
HDMI ports quantity	3
Ethernet LAN (RJ-45) ports *	6
Thunderbolt 3 ports quantity	4
6.35 mm (1⁄4-inch) input	2
PCI Express x4 (Gen 3.x) slots	1
PCI Express x8 (Gen 3.x) slots	2

Graphics

On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	5912
Maximum on-board graphics card memory	64 GB
Number of displays supported (on-board graphics)	3

Design

Chassis type *	Tower
Cooling type *	Active
Product colour	Black
Number of fans	3 fan(s)
Fan diameter	8 cm
LED indicators	HDD, SSD
Built-in display	✓
Display type	LCD
Built-in speaker(s)	✓
Number of built-in speakers	2

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 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 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64, Windows 8.1, Windows 8.1 Enterprise, Windows 8.1 Enterprise x64, Windows 8.1 Pro, Windows 8.1 Pro x64, Windows 8.1 x64
Linux operating systems supported	✓
Mac operating systems supported	✓
Server operating systems supported	Windows Server 2003, Windows Server 2003 R2, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2

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

Weight & dimensions

Width *	369.9 mm
Depth *	319.8 mm
Height *	234.6 mm
Weight	11.6 kg
Package weight	13.7 kg

Packaging content

Cables included	AC, LAN (RJ-45)
Number of screws	26
Remote control included	✓

Processor special features

Embedded options available	✓
Enhanced Intel SpeedStep Technology	✓
Execute Disable Bit	✓
Idle States	✓
Intel 64	✓
Intel Clear Video Technology	✓
Intel Enhanced Halt State	✓
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Stable Image Platform Program (SIPP)	✓
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Trusted Execution Technology	✓
Intel TSX-NI	✓
Intel TSX-NI version	1.00

Performance	
Type *	NAS
Device class *	Small & Medium Business
Backup function *	✔
Backup features	Cloud, USB drive, iSCSI LUN

Processor special features	
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® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✘
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® InTru™ 3D Technology	✔
Intel® OS Guard	✔
Intel® Quick Sync Video Technology	✔
Intel® Secure Key	✔
Intel® Turbo Boost Technology	2.0
Maximum number of PCI Express lanes	16
Thermal Monitoring Technologies	✔
Thermal solution specification	PCG 2015C
Memory channels supported by processor	Dual
Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM
Memory voltage supported by processor	1.35 V

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

Other features	
Processor ARK ID	97123