

QNAP TVS-682 NAS Tower Ethernet LAN Black i3-6100

Brand : QNAP

Product code: TVS-682-i3-8G-US

Product name : TVS-682

Intel Core i3-6100 , 32GB DDR4, 2 x 2.5"/M.2 SSD, 4 x 2.5"/3.5", USB 3.0, LAN, HDMI, 7.7 kg
 QNAP TVS-682. Supported storage drive types: HDD & SSD, Storage drive interface: M.2, Serial ATA III, Storage drive size: 2.5/3.5". Processor family: Intel® Core™ i3, Processor manufacturer: Intel, Processor model: i3-6100. Internal memory: 8 GB, Internal memory type: DDR4, Maximum RAM supported: 64 GB. Ethernet LAN data rates: 10,1000 Mbit/s, Supported network protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and.... On-board graphics card base frequency: 350 MHz, On-board graphics card dynamic frequency (max): 1050 MHz, On-board graphics card ID: 0x1912



Storage		Software		
Storage drive interface *	M.2, Serial ATA III	Operating system installed *	QNAP Turbo NAS System	
Storage drive size	2.5/3.5"	Operating system version	4.2	
RAID support *	✓	Windows 10 Education, Windows 10 Education x64, Windows 10 Enterprise, Windows 10 Enterprise x64, Windows 10 Home, Windows 10 Home x64, 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		
RAID levels	0, 1, 2, 3, 4, 5, 6, JBOD			
Hot-swap drive bays	✓			
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4			
Storage drives installed *	✗			
Number of storage drives supported *	8			
Installed storage drive type *	✗			
Supported storage drive types *	HDD & SSD			
Processor			Windows operating systems supported	
Processor manufacturer *	Intel		Linux operating systems supported	✓
Processor generation	6th gen Intel® Core™ i3	Mac operating systems supported	Mac OS X 10.0 Cheetah, Mac OS X 10.1 Puma, Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.2 Jaguar, Mac OS X 10.3 Panther, Mac OS X 10.4 Tiger, Mac OS X 10.5 Leopard, Mac OS X 10.6 Snow Leopard, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks	
Processor family *	Intel® Core™ i3	Server operating systems supported	Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2	
Processor model *	i3-6100	Other operating systems supported	Android	
Processor frequency *	3.7 GHz	Power		
Processor cores	2	Power supply location	Built-in	
Processor threads	4	Power supply unit (PSU) capacity	250 W	
Processor cache	3 MB	Number of power supply units	1	
Bus type	DMI3			
CPU configuration (max)	1			
ECC supported by processor	✓			
FSB Parity	✗			
PCI Express configurations	1x16, 1x8+2x4, 2x8			
PCI Express slots version	3.0			
Processor cache type	L3			
Processor code	SR2HG			
Processor codename	Skylake			
Processor lithography	14 nm			
Processor operating modes	64-bit			
Processor package size	37.5 x 37.5 mm			
Processor series	Intel Core i3-6100 series			
Processor socket	LGA 1151 (Socket H4)			
Scalability	1S			
Stepping	S0			

Processor		Weight & dimensions	
System bus rate	8 GT/s	Width *	224.9 mm
Tcase	65 °C	Depth *	319.8 mm
Thermal Design Power (TDP)	51 W	Height *	231.9 mm
On-board graphics card model	Intel® HD Graphics 530	Weight	7.7 kg
Maximum internal memory supported by processor	64 GB	Package weight	9.5 kg
Memory bandwidth supported by processor (max)	34.1 GB/s	Packaging content	
Conflict-Free processor	✓	Cables included	AC, LAN (RJ-45)
Memory		Quick installation guide	✓
Internal memory type	DDR4	Processor special features	
Maximum RAM supported	64 GB	Embedded options available	✓
Memory slots	4	Enhanced Intel SpeedStep Technology	✓
Internal memory *	8 GB	Execute Disable Bit	✓
Flash memory	512 MB	Graphics & IMC lithography	14 nm
Network		Idle States	✓
Ethernet LAN *	✓	Intel 64	✓
Ethernet LAN data rates	10,1000 Mbit/s	Intel Clear Video Technology	✓
Wi-Fi	✗	Intel Demand Based Switching	✗
DHCP client	✓	Intel Dual Display Capable Technology	✗
DHCP server	✓	Intel Enhanced Halt State	✓
Jumbo frames support	✓	Intel Fast Memory Access	✗
iSCSI support	✓	Intel FDI Technology	✗
Wake-on-LAN ready	✓	Intel Flex Memory Access	✗
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC	Intel Identity Protection Technology version	1.00
Link aggregation	✓	Intel Rapid Storage Technology	✗
Ports & interfaces		Intel Secure Key Technology version	1.00
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	5	Intel Small Business Advantage (SBA) version	1.00
HDMI ports quantity	3	Intel Stable Image Platform Program (SIPP)	✗
Ethernet LAN (RJ-45) ports *	4	Intel Stable Image Platform Program (SIPP) version	0.00
Graphics		Intel Trusted Execution Technology	✗
On-board graphics card base frequency	350 MHz	Intel TSX-NI	✗
On-board graphics card dynamic frequency (max)	1050 MHz	Intel TSX-NI version	0.00
On-board graphics card DirectX version	12.0	Intel Virtualization Technology (VT-x)	✓
On-board graphics card OpenGL version	4.4	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card ID	0x1912	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum on-board graphics card memory	1.7 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Number of displays supported (on-board graphics)	3	Intel® Anti-Theft Technology (Intel® AT)	✗
Design		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Chassis type *	Tower	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Cooling type *	Active	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Product colour	Black	Intel® Identity Protection Technology (Intel® IPT)	✓
Number of fans	1 fan(s)	Intel® Insider™	✓
Fan diameter	8 cm	Intel® InTru™ 3D Technology	✓
LED indicators	HDD, SSD, Status	Intel® My WiFi Technology (Intel® MWT)	✗
Performance		Intel® OS Guard	✓
Type *	NAS	Intel® Quick Sync Video Technology	✓
Device class *	Small & Medium Business	Intel® Secure Key	✓
Backup function *	✓		
Backup features	Cloud, iSCSI LUN		
Buzzer	✓		

Performance		Processor special features	
Multilingual support	✓	Intel® Small Business Advantage (Intel® SBA)	✓
Noise level	20.5 dB	Intel® Smart Cache	✓
Management protocols	DDNS, SNMP v2/v3	Intel® Turbo Boost Technology	✗
Web-based management	✓	Intel® Wireless Display (Intel® WiDi)	✓
Share folder access right management	✓	Maximum number of PCI Express lanes	16
Security algorithms	128-bit AES, 256-bit AES, FIPS 140-2, HTTPS, MSCHAPv2, SNMP, SSL/TLS	Thermal Monitoring Technologies	✓
Access Control List (ACL)	✓	Thermal solution specification	PCG 2015C
Reset button	✓	Memory channels supported by processor	Dual
On/off switch	✓	Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM
Built-in UPnP AV media server	✓	Memory voltage supported by processor	1.35 V
Built-in FTP server	✓	Operational conditions	
System log	✓	Operating temperature (T-T)	0 - 40 °C
Hot spare	✓	Operating relative humidity (H-H)	5 - 95%
Password authentication	✓	Other features	
S.M.A.R.T. support	✓	Digital Living Network Alliance (DLNA) certified	✓
		Processor ARK ID	90729

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