

QNAP TVS-872XT-i5-16G 64TB (Seagate Exos) 8-Bay NAS; Intel core i5-8400T 6-core 1.7 GHz Processor(max 3.3 Tower Ethernet LAN Black







Brand : QNAP **Product code:** TVS-872XT-I5-16G/64TB-FXOS

Product name : TVS-872XT-i5-16G 64TB (Seagate Exos) 8-Bay NAS; Intel core i5-8400T 6-core 1.7 GHz Processor(max 3.3

- High-speed Thunderbolt™ 3 with SMB protocol, allowing Mac® and Windows® users to collaborate on media editing
- $\hbox{-} \ 5\hbox{-speed} \ 10\hbox{GBASE-T RJ} 45 \ connectivity \ accelerates \ virtualization \ applications \ and \ file \ sharing \ across \ teams \ and \ devices$
- PCIe expandability allows the use of an entry-level graphics card to accelerate NAS video processing and GPU computing
- Install M.2 PCIe (Gen 3 x2, 2 GB/s) NVMe SSDs (sold separately) to set up caching or storage pools, improving file access efficiency
- 4K media playback and real-time transcoding; directly view creative works on an HDTV via HDMI 2.0 (4K $(0.60 \, \text{Hz})$ output
- Snapshots fully record system status and data, allowing you to protect files and data from accidental deletion and malware attacks

Intel Core i5-8400T 1.7 GHz, DDR4, 8x 2.5/3.5" SATA III, 2x M.2, 1x 10G RJ-45, 2x 1G RJ-45, 2x PCIe, USB 3.0, 2x USB 3.1 C, 2x USB 3.1 A, HDMI 2.0, 2x 3.5mm, 188.2x329.3x279.6 mm

Supported storage drive interfaces Storage drive sizes supported 2.5,3.5" Backup function * Vertical Storage drive sizes supported 2.5,3.5" Backup function * Vertical Storage drive sizes supported 2.5,3.5" Backup features Cloud, iSCSI LUN Cloud, iSCI Cloud, iSCI Cloud, iSCI Cloud, iSCI Cloud, iSCI Cloud, iSCI C	Stave we		Parfarman	
Storage drive sizes supported 25,3.5° Backup function Cloud, iSCSI LUN Number of M.2 (M & B) slots 2 Backup features Cloud, iSCSI LUN ARID support * 4 Backup features Cloud, iSCSI LUN RAID levels 0, 1, 5, 6, 10, 50, 60, JBOD Multilingual support 4 Online RAID migration V Security algorithms 256-bit AES, FIPS 140-2, HTTPS, SNMPv3, SSH, SSL/TLS ARID rebuild V Access Control List (ACL) 5 Hot-swap drive bays FAT32, HFS+, NTFS, ext3, ext4 Reset button ACCESS Control List (ACL) 4 Supported file systems FAT32, HFS+, NTFS, ext3, ext4 Reset button ACCESS Control List (ACL) 4 Number of storage drives supported APP Security algorithms Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox Processor HDD & SSD Browser supported Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox Processor frequency 1, 7 GHz S.M.A.R.T. support CIFS/SMB Processor frequency 1, 2 GHz <td< td=""><td>Storage</td><td></td><td>Performance</td><td></td></td<>	Storage		Performance	
Number of N.2 (M & B) slots 2 Backup features Cloud, iSCSI LUN RAID support 9 Buzzer 4 AND Inversion 0, 1, 5, 6, 10, 50, 60, jBOD Multilingual support 4 Online RAID migration V Web-based management 5 Online RAID expansion 4 Security algorithms 256-bit AES, FIPS 140-2, HTTPS, SNMPV3, SSH, SSL/TLS RAID rebuild 4 Access Control List (ACL) 4 Hot-swap drive bays FAT32, HFS+, NTFS, ext3, ext4 Reset button 4 Storage drive supported file systems FAT32, HFS+, NTFS, ext3, ext4 Reset button 4 Number of storage drive supported 8 Built-in FTP server 4 Installed storage drive type* HDD Built-in FTP server 4 Installed storage drive type* HDD & SD Browser supported Microsoft internet Explorer 10+, Moralla Firefox Bab block scan 17 GHz System log 4 Processor Hot spane (IFS/SMB Processor frequency* 1, GHz System log 4 Processor				
RAID support RAID support RAID levels 0,1,5,6,10,50,60,JBOD Multilingual support Veb-based management Vonline RAID migration Veb-based management Veb on/off switch Veb on/off switch Veloating Tiber (No.) Veloatin		2.5,3.5"	•	
RAID levels 0, 1, 5, 6, 10, 50, 60, JBOD Multilingual support 7 Online RAID migration 7 Online RAID migration 7 Online RAID expansion 8 Online RAID expansion 7 Online RAID expansion 8 Online Raid expansion 9 Online Raid ex	Number of M.2 (M & B) slots	2	Backup features	Cloud, iSCSI LUN
Online RAID migration V Web-based management Z56-bit AES, FIPS 140-2, HTTPS, SMPV3, SSH, SSL/TLS RAID rebuild V Access Control List (ACL) Z56-bit AES, FIPS 140-2, HTTPS, SMPV3, SSH, SSL/TLS Hot-swap drive bays Y Access Control List (ACL) X Supported file systems FAT32, HFS+, NTFS, ext3, ext4 Reset button X Storage drives installed* Y On/off switch X Number of storage drives supported Built-in TIPs server X Installed storage drive type* HDD Built-in FTP server X Installed storage drive type* HDD & SSD Browser supported Microsoft Internet Explorer 10+, Mozilla Firefox Supported storage drive type* HDD & SSD System log Y Processor Y System log Y Processor 1.7 GHz System log Y Processor frequency 1.7 GHz System log CIFS/SMB Processor frequency 1.7 GHz System log CIFS/SMB Processor cache 9 MB Universal Plug and Play (UPnP) V	RAID support *	1	Buzzer	1
Online RAID expansion Y Security algorithms 256-bit AES, FIPS 140-2, HTTPS, RAID rebuild Hot-swap drive bays Y Access Control List (ACL) Y Supported file systems FAT32, HFS+, NTFS, ext3, ext4 Reset button Y Storage drives installed FAT32, HFS+, NTFS, ext3, ext4 Reset button Y Number of storage drives supported Built-in TUnes server Y Number of storage drive types HDD Built-in FTP server Y Installed storage drive types HDD Built-in FTP server Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox Bud block scan Y System log Y Processor Hot spare Y Y Processor frequency 1.7 GHz SM.A.R.T. support Y Processor boost frequency 1.7 GHz SM.A.R.T. support CIFS/SMB Bus type DMI3 Usineversal Plug and Play (UPnP) Y Configurable TDP-down frequency 1.2 GHz Software ECC supported by processor X Y PCI Express solfs version 3.0 Linux operating system supported Mindows 10, Windows 10, Win	RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD	Multilingual support	1
RAID rebuild Hot-swap drive bays Supported file systems Storage drives installed FAT32, HFS+, NTFS, ext3, ext4 Storage drives installed FAT32, HFS+, NTFS, ext3, ext4 Storage drives installed FAT32, HFS+, NTFS, ext3, ext4 Reset button On/off switch On/off	Online RAID migration	1	Web-based management	•
Supported file systems FAT32, HFS+, NTFS, ext3, ext4 Reset button Chronic storage drives installed Chronic storage drives supported Built-in Tunes server Built-in FTP server Chronic storage drive type HDD Browser supported Browser supported Browser supported Mozilla Firefox Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox Mozill	·	√	Security algorithms	
Supported file systemsFAT32, HFS+, NTFS, ext3, ext4Reset button/Storage drives installed**/On/off switch/Number of storage drives supported**8Built-in iTunes server/Installed storage drive type **HDDBuilt-in FTP server/Installed storage drive types **HDD & SSDApple Safari 7+, Google Chrome, Mozilla FirefoxSupported storage drive types **HDD & SSDApple Safari 7+, Google Chrome, Mozilla FirefoxBad block scan/System log/Processor1.7 GHzS.M.A.R.T. support/Processor frequency **1.7 GHzShA.R.T. supportCIFS/SMBProcessor frequency **9 MBUniversal Plug and Play (UPnP)/Processor cacheDMI3UsB copp function/Sus typeDMI3UsB copp function/COnfigurable TDP-down frequency1.2 GHzSoftwareCPU configuration (max)1Operating system version4.4.0PCI Express configurations1.16, 1x8+2x4, 2x8Windows operating systemsWindows 10, Windows 7, Windows 8PCI Express slots version3.0Linux operating systems supported/Processor cache typeSmart CacheIn unique of the processor cache typeMac OS X 10.11 Yosemite, Mac OS X 10.11 Pictor, Mac OS X 10.11 Mighs lerra, Mac OS X 10.13 High Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojavy, Mac OS X 10.14 Windows Server 2003, Windows Server 2003, Windows Server	Hot-swap drive bays	1	Access Control List (ACL)	✓
Storage drives installed *VOn/off switchVNumber of storage drives supported *8Built-in Trunes server Built-in Trunes server Augusti-in FTP serverVInstalled storage drive type *HDDBrowser supportedApple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla FirefoxSupported storage drive types *HDD & SSDBrowser supportedMicrosoft Internet Explorer 10+, Mozilla FirefoxBad block scanVSystem logVProcessorHot spareVProcessor frequency *1.7 GHzS.M.A.R.T. supportCIFS/SMBProcessor boost frequency3.3 GHzShare folderCIFS/SMBProcessor cache9 MBUniversal Plug and Play (UPnP)VConfigurable TDP-down frequency1.2 GHzSoftwareCPU configuration (max)1Operating system version4.4.0PCI Express configurations1.16, 1x8+2x4, 2x8Windows operating systemsWindows 10, Windows 7, Windows 8PCI Express solts version3.0Linux operating systems supportedVProcessor cache typeSmart CacheMac OS X 10.10 Yosemite, Mac OS X 10.12 Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojaye, Mac OS	•	FAT32. HFS+. NTFS. ext3. ext4	Reset button	✓
Number of storage drives supported * Built-in iTunes server Built-in iTunes server # Suilt-in iTunes * Suilt-in iTunes		, , , , ,	On/off switch	✓
* Installed storage drive type * INDD & SSD	-		Built-in iTunes server	✓
Supported storage drive types*HDD & SSDBrowser supportedMicrosoft Internet Explorer 10+, Mozilla FirefoxBad block scanVSystem logVProcessorHot spareVProcessor frequency*1.7 GHzS.M.A.R.T. supportVProcessor boost frequency3.3 GHzShare folderCIFS/SMBProcessor cache9 MBUniversal Plug and Play (UPnP)VBus typeDMI3USB copy functionVConfigurable TDP-down frequency1.2 GHzSoftwareCPU configuration (max)1SoftwarePCI Express configurations1x16, 1x8+2x4, 2x8Windows operating systems supportedWindows 10, Windows 7, Windows 8PCI Express slots version3.0Linux operating systems supportedVProcessor cache typeSmart CacheMac OS X 10.10 Yosemite, Mac OS X 10.12Processor lithography14 nmMac operating systems supportedVProcessor operating modes64-bitMac operating systems supportedVProcessor package size37.5 x 37.5 mmMac operating systems supportedVindows Server 2003, Windows Server 2003, Windows Server 2012 R2, Windows Server 2013 R2, Windows Server 2013 R2, Windows Server 2013 R2, Windows Server 2016 R2, Windows Server 2016 R2, Windows Server 2016 R2, Win	*	8	Built-in FTP server	✓
Processor Processor frequency* 1.7 GHz S.M.A.R.T. support Processor boost frequency 3.3 GHz Share folder Processor cache 9 MB Universal Plug and Play (UPnP) Universal Plug and Play (UpnP	Supported storage drive types *	HDD & SSD	Browser supported	Microsoft Internet Explorer 10+,
Processor frequency * 1.7 GHz S.M.A.R.T. support Processor boost frequency 3.3 GHz Share folder Processor cache 9 MB Universal Plug and Play (UPnP) Universal P	Bad block scan	√	System log	1
Processor boost frequency3.3 GHzShare folderCIFS/SMBProcessor cache9 MBUniversal Plug and Play (UPnP)Image: Company of the processor of the	Processor		Hot spare	✓
Processor cache9 MBUniversal Plug and Play (UPnP)✓Bus typeDMI3USB copy function✓Configurable TDP-down frequency1.2 GHzSoftwareCPU configuration (max)1Operating system version4.4.0ECC supported by processorXWindows operating systems supportedWindows 10, Windows 7, Windows 8PCI Express configurations1.16, 1x8+2x4, 2x8Windows operating systems supported✓PCI Express slots version3.0Linux operating systems supported✓Processor cache typeSmart CacheMac OS X 10.10 Yosemite, Mac OS X 10.11 EI Capitan, Mac OS X 10.11 EI Capitan, Mac OS X 10.12 Fierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.19 Mountain Lion, Mac OS X 10.19 Mountain	Processor frequency *	1.7 GHz	S.M.A.R.T. support	✓
Bus type DMI3 USB copy function Configurable TDP-down frequency 1.2 GHz Software CPU configuration (max) 1 ECC supported by processor X PCI Express configurations 1x16, 1x8+2x4, 2x8 Windows operating systems supported Windows 10, Windows 7, Windows 7, Windows 7, Windows 7, Windows 7, Windows 7, Windows 8, Windows 10, Windows 7, Windows 8, Windows 10, Windows 10, Windows 7, Windows 10, Windows 10, Windows 7, Windows 10,	Processor boost frequency	3.3 GHz	Share folder	CIFS/SMB
Configurable TDP-down frequency CPU configuration (max) ECC supported by processor X CPI Express configurations PCI Express configurations PCI Express slots version 3.0 Linux operating systems supported Processor cache type Processor code Processor lithography Processor lithography Processor operating modes Processor operating modes Processor package size 37.5 x 37.5 mm Server operating systems supported Server 2008 R2, Windows Server 2012 R2, Windows Server 2012 R2, Windows Server 2016 Windows operating systems supported A.4.0 4.4.0 Windows 10, Windows 7, Windows 8 Windows 10, Windows	Processor cache	9 MB	Universal Plug and Play (UPnP)	✓
CPU configuration (max) ECC supported by processor X PCI Express configurations 1x16, 1x8+2x4, 2x8 PCI Express slots version 3.0 Linux operating systems supported Processor cache type Processor lithography Processor operating modes Processor package size 3.5 x 37.5 mm Stepping U0 Server operating systems supported Operating systems version Vindows 10, Windows 7, Windows 8 Windows 10, Windows 7, Windows 8 Windows 10, Windows 7, Windows 8 Windows 10, Windows 7, Windows 8 Wac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, 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 10.7 Lion, Mac OS X 10.14 Mojave, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks Scalability Stepping U0 Server operating systems supported Windows Server 2003, Windows Server 2012, Windows Server 2016	Bus type	DMI3	USB copy function	✓
ECC supported by processor PCI Express configurations PCI Express configurations PCI Express slots version PCI Express slots version PCI Express slots version Processor cache type Processor code Processor lithography Processor operating modes Processor package size Scalability Stepping Vindows 10, Windows 7, Windows 8 Windows 10, Windows 7, Windows 8 Windows 10, Windows 7, Windows 8 Vindows 10, Windows 10, Wind			Software	
PCI Express configurations 1x16, 1x8+2x4, 2x8 PCI Express slots version 3.0 Linux operating systems supported Frocessor cache type Frocessor code Frocessor lithography Frocessor operating modes Frocessor operating modes Frocessor package size 3.0 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 10.14 Mojave, Mac OS X 10.14 Mojave, Mac OS X 10.17 Lion, Mac OS X 10.14 Mojave, Mac OS X 10.17 Lion, Mac OS X 10.19 Mavericks Scalability Stepping U0 Server operating systems supported Windows 5erver 2003, Windows Server 2012, Windows Server 2012, Windows Server 2012, Windows Server 2012, Windows Server 2016			Operating system version	4.4.0
Processor cache type Smart Cache Processor code SR3X6 Processor lithography 14 nm Mac operating systems supported Processor operating modes 64-bit Processor package size 37.5 x 37.5 mm Scalability 15 Stepping U0 Server operating systems supported Server operating systems supported Systems supported Processor operating systems supported Server 2012, Windows Server 2012 R2, Windows Server 2016	PCI Express configurations	1x16, 1x8+2x4, 2x8		Windows 10, Windows 7, Windows 8
Processor code Processor lithography Processor lithography Processor package size Scalability Stepping U0 Server operating systems supported SR3X6 Mac OS X 10.11 El Capitan, Mac OS X 10.12 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.14 Mojave, Mac OS X 10.14 Mojave, Mac OS X 10.17 Lion, Mac OS X 10.18 Mountain Lion, Mac OS X 10.19 Mavericks Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012, Windows Server 2012, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016	'		Linux operating systems supported	✓
Processor lithography14 nmMac operating systems supportedSierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.14 Mojave, Mac OS X 10.14 Mojave, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 MavericksProcessor package size37.5 x 37.5 mmLion, Mac OS X 10.9 MavericksScalability1SWindows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2016	Processor cache type	Smart Cache		Mac OS X 10.10 Yosemite, Mac OS X
Processor operating modes Processor operating modes Processor package size Scalability Stepping System bus rate Amac OS X 10.14 Mojave, Mac OS X 10.7 Lion, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks Windows Server 2003, Windows Server 2012, Windows Server 2016		SR3X6		
Processor operating modes Processor package size Processor package size Scalability Stepping System bus rate 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks Windows Server 2003, Windows Server operating systems supported Server operating systems supported 8 GT/s 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016	Processor lithography	14 nm	Mac operating systems supported	
Stepping U0 Server operating systems supported Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016	, -			10.7 Lion, Mac OS X 10.8 Mountain
System bus rate 8 GT/s Server operating systems supported 2012, Windows Server 2012 R2, Windows Server 2016	Scalability	15		Windows Server 2003, Windows
System bus rate 8 GT/s 2012, Windows Server 2012 R2, Windows Server 2016	Stepping	U0	Server operating systems supported	
Williams Server 2010		8 GT/s	s s s s s s s s s s s s s s s s s s s	2012, Windows Server 2012 R2,
	Tjunction	100 °C		Williams Sciver 2010

Processor Power Power supply location Builtin Maximum internal memory supported by processor processor (mass) and processor (mass				
Maximum internal memory is apported by professor years plant with supported by professor years plant with supported by professor years plant with supported by professor years years plant years	Processor		Power	
supported by processor (max) 64 Le Bits Al, e Bits Act (not) voltage 100 - 240 V Memory bandwidth supported by processor (max) 4 Ce Mark (not) voltage 100 - 240 V Memory Internal memory by personal memory by personal memory of the summary of th	Thermal Design Power (TDP)	35 W		
Memory pandwidth supported by processor (max) Fan voltage 10 - 240 V Fan voltage 12 V Fan voltage 1		64 GB		
Conflict-Free processor Weight & dimensions Memory United an amemory type DDM4 Width * Depth * 279.6 mm Maarimum RMB supported 32 CB Height * 279.6 mm 237.6 mm Macarimum RMB supported 32 CB Height * 279.6 mm 7.06 kg Internal memory 16 CB Packaging content Flash memory 4000 MB Packaging content Network Cables included AC, LAN (RJ-45) Ethernet LAN data rates supported (mass) 1,000,1000,1000,10000 Mbib/s Embedded options available (mass) X Ethernet LAN data rates supported (mass) 1,000,1000,1000,1000 Mbib/s Embedded options available (mass) X UKF (Fill) X Cates (SI) Support X UKF (Fill) X Intel States (Mass) X UKF (Fill) X Intel Clear Video Technology X		41.6 GB/s	· -	
Memory Memory Midth Mi	Conflict-Free processor	✓	Fan Voltage	12 V
Internal memory type	Memory		Weight & dimensions	
Maximum RAM supported 32 GB Depth ** 279.6 km Memony slots 2 Height ** 1802 mm 1.00 kg Flash memory 16 GB Peckaging content Network Cables included AC, LAN (R)-45 Ethernet LAN ** Cables included AC, LAN (R)-45 Ethernet LAN data rates 1,000,000,1000,0000 Mbir/s Embedded options available X Ethernet LAN data rate supported (max) 1,000,000,1000,0000 Mbir/s Embedded options available X Ethernet LAN data rate support 4,000,000,000 Mbir/s Embedded options available X Ethernet LAN data rate support 4,000,000 Mbir/s Embedded options available X Ethernet LAN data rate support 4 Cable States 4 DICP client X Embedded options available X Enhanced Install State 4 Accounting the company of the co	•	DDR4	Width *	329.3 mm
Memory 105 106 1	· · ·		Depth *	
Internal memory 16 GB	''		•	
Selection Sele	Internal memory *	16 GB	Weight	7.06 kg
Ethemet LAN *	Flash memory	4000 MB	Packaging content	
Ethernet LAN data rates Ethernet LAN data rates Ethernet LAN data rates Ethernet LAN data rates 10.100,1000,1000,10000 mbit/s Ethernet LAN data rate supported (max) Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi DHCP clent Vi Cherology Vi Intel Graving Expectates Vi Intel Graving Common Market Vi Intel Graving Cherology Vi Intel States Vi Intel Graving Cherology Vi Intel State Protection Technology Version Vi Intel State Intel Graving Cherology Version Vi Intel State Intel Cherology Version Vi Intel State Intel Cherology Version Vi Intel State Intel Cherology Vi Intel State Intel Cherology Vi Intel Virtualization Technology Vi Virtualizat	Network		Cables included	AC, LAN (RJ-45)
Ethernet LAN data rate supported (max)	Ethernet LAN *	1	Quick installation guide	✓
Chanax Minimum Minim		•	Processor special features	
Enhanced Intel SpeedStep	Ethernet LAN data rate supported	10000 Mbit/c	Embedded options available	×
DHCP client		10000 MDIC/S	Enhanced Intel SpeedStep	1
DHCP server V		×	•	•
Jumbo frames support SCSI support SCSI support Very		√		√
iSCSI support Wake-on-LAN ready Vake-on-LAN read		1		1
Wake-on-LAN ready / Intel Enhanced Halt State / Capprete network protocols TCP/P, IPv4, IPv6 intel Identity Protection Technology 1.00 Dynamic DNS (DDNS) / Intel Secure Key Technology version 1.00 WLAN adapter supported / Intel Secure Key Technology version 1.00 BOS S, Cen 1 (3.1 Gen 1) Type-A ports quantity / Intel Tsx-NI wersion 0.00 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity 2 Intel Tsx-NI version 0.00 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity 2 Intel Virtualization Technology (VT-your constitution) / Capper (VIII) HDMI ports quantity 1 Intel Virtualization Technology for Directed (JO (VT-d)) / Capper (VIII-d) HDMI ports quantity 1 Intel VIrx with Extended Page / Capper (VIII-d) Thunderbolt 3 ports quantity 2 Intel® (Capper Video HD Technology (Intel® (Capper Video HD Technology (Intel® (Capper Video HD Technology (Intel® (Capper Video Technology (Intel®	•	4		1
Supported network protocols TCP/IP, IPv4, IPv6 Intel Identity Protection Technology 1.00 Dynamic DNS (IDDNS) Y Intel Secure Key Technology version 1.00 WLNA adapter supported Intel Stable Image Platform Program X USB port * Intel Trusted Execution Technology X USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity 1 Intel TSX-NI version 0.00 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity 2 Intel Virtualization Technology for Directed I/O (VT-d) V USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity 2 Intel Virtualization Technology for Directed I/O (VT-d) V USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity 1 Intel Virtualization Technology for Directed I/O (VT-d) V USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 2 Intel Virtualization Technology for Directed I/O (VT-d) V USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 1 Intel Virtualization Technology for Directed I/O (VT-d) V USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 1 Intel Virtualization Technology V Ethernet LAN (R)-45) ports 4 3 Intel Virtualization Technology V	• •	1	3,	1
Dynamic DNS (DDNS) Vical Madapter supported Vical Manager Platform Program Vical Manager Pl	•	TCP/IP. IPv4. IPv6		1.00
Intel Stable Image Platform Program	• • • • • • • • • • • • • • • • • • • •	✓		1.00
USB port	WLAN adapter supported	✓		
USB port* Intel Trusted Execution Technology X USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 1 Intel Virtualization Technology (VT- x) USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 1 Intel Virtualization Technology for Directed (VO (VT-d)) HDMI ports quantity 1 Intel Virtualization Technology for Directed (VO (VT-d)) HDMI ports quantity 2 Intel® AES New Instructions (Intel® 4.5 Nin) Intel® Clear Video HD Technology (Intel® Clear Video HD Technology for Mobile Internet Devices (Intel CVT for MID) Graphics Graphics Graphics Graphics card base frequency Grequency On-board graphics card base frequency (max) On-board graphics card dynamic frequency (max) On-board graphics card ID Maximum on-board graphics card memory Maximum on-board graphics card memory Maximum on-board graphics card memory Design Tower Chassis type * Chassis type * Tower Chassis type * Tower Cooling type * Active Thermal Monitoring Technology Maximum number of PCI Express lanes Cooling type * Active Thermal Monitoring Technologies For Memory channels supported by processor For MiD Dual DDR4-SDRAM DDR4-SDRAM DDR4-SDRAM Cable lock slot Operating temperature (T-T)	Ports & interfaces			×
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity Intel TSX-NI version 0.00 USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 2 Intel Virtualization Technology (VT-x) ports quantity 1 Intel VITx with Extended Page Tethernet LAN (R)-45) ports quantity 2 Intel VITx with Extended Page Tables (EPT) 7		1		•
Intel TSX-NI version 0.00	•			
ports quantity 2 Intel Virtualization Technology for Directed I/O (VT-d) √ USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity 2 Intel Virtualization Technology for Directed I/O (VT-d) ✓ HDMI ports quantity 1 Intel VT-x with Extended Page Tables (EPT) ✓ Thunderbolt 3 ports quantity 2 Intel® AES New Instructions (Intel® VT-x with Extended Page AES New Instructions (Intel® Cervice Page Page AES New Instructions (Intel® VT-x with Extended Page AES New Instructions (Intel® VT-x with Extended Page AES New Instructions (Intel® VT-x with Extended Page AES New Instructions (Intel® Cervice Page Page Page Page Page Page Page Pag		1		
Section Sect		2	Intel Virtualization Technology (VT-	,
ports quantity 1 HDMI ports quantity 1 HDMI ports quantity 1 Intel VT-x with Extended Page 1 Thunderbolt 3 ports quantity 2 Intel® AES New Instructions (Intel® 4 AES-NI) 3.5 mm (1/8-inch) out 4 PCI Express x4 (Gen 3.x) slots 1 Microphone in 4 Graphics 1 On-board graphics card base frequency (Intel® AES) New Instructions (Intel® Clear Video HD Technology for Mobile Internet Devices (Intel CVT or MID) On-board graphics card base frequency (Intel® Clear Video Technology (Intel® Clear Video Technology for MID) On-board graphics card dynamic frequency (Intel® Hyper Threading Technology (Intel® IPT) 4 On-board graphics card dynamic frequency (Intel® Hyper Threading Technology (Intel® IPT) 4 Number of displays supported (on board graphics) 3 Intel® Intel® Olick Sync Video Technology 4 Maximum on-board graphics card nemory 1 Number of displays supported (on board graphics) 3 Intel® Quick Sync Video Technology 4 Maximum on-board graphics nemory 1 Maximum on-board graphics nemory 1 Maximum on-board graphics nemory 1 Number of displays supported (on board graphics) 3 Intel® Quick Sync Video Technology 4 Maximum number of PCI Express 1 Intel® Quick Sync Video Technology 2 Design 1 Number of displays 4 Active 1 Maximum number of PCI Express 1 Intel® Design 2 Number of fans 4 fan(s) 4 Memory channels supported by processor 1 Number of fans 4 fan(s) 4 Memory channels supported by processor 1 Dual DRA-SDRAM 1 DDRA-SDRAM 1 DRA-SDRAM 1 DRA-SD	-			*
HDMI ports quantity 1		2	3,	✓
Ethernet LAN (RJ-45) ports* 3 Tables (EPT) Thunderbolt 3 ports quantity 2 Intel® AES New Instructions (Intel® AES New Instructions (Intel® AES New Instructions) (Intel® CES Video HD Technology of Ces New Instructions) (Intel® CES Video HD Technology for Mobile Internet Devices (Intel CVT HD) Graphics 350 MHz Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT HD) On-board graphics card base frequency 350 MHz Intel® Hyper Threading Technology Accompany (Intel® HT Technology) On-board graphics card dynamic frequency (max) 1050 MHz Intel® Intru® Intel®	HDMI ports quantity	1		
3.5 mm (1/8-inch) out ✓ AES-NI) Intel® Clear Video HD Technology (Intel® CVT HD) ✓ Microphone in ✓ Intel® Clear Video Technology (Intel® CVT HD) ✓ Graphics Graphics On-board graphics card base frequency 350 MHz Intel® Hyper Threading Technology (Intel® HT Technology) X On-board graphics card dynamic frequency (max) 1050 MHz Intel® InTru™ 3D Technology (Intel® IPT or X On-board graphics card ID 0x3E92 Intel® InTru™ 3D Technology X Maximum on-board graphics card memory 64 GB Intel® OS Guard X Number of displays supported (onboard graphics) 3 Intel® Clear Video Technology X Design Chassis type * Intel® OS Guard X Chassis type * Intel® Turbo Boost Technology 2.0 Chassis type * Active Maximum number of PCI Express lanes 16 Cooling type * Active Thermal Monitoring Technologies X Product colour Black Thermal solution specification PCG 2015A Number of fans 4 fan(s) Memory types supported by proces	Ethernet LAN (RJ-45) ports *	3	3	V
PCI Express x4 (Gen 3.x) slots 1 Microphone in	, , ,	2		✓
Microphone in Microphone in		✓	•	
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) On-board graphics card base frequency 350 MHz Intel® Hyper Threading Technology (Intel® HT Technology) X On-board graphics card dynamic frequency (max) 1050 MHz Intel® Identity Protection Technology (Intel® IPT) √ On-board graphics card ID 0x3E92 Intel® InTru™ 3D Technology ✓ Maximum on-board graphics card memory 64 GB Intel® OS Guard ✓ Number of displays supported (onboard graphics) 3 Intel® Quick Sync Video Technology ✓ Number of displays supported (onboard graphics) 3 Intel® Turbo Boost Technology ✓ Pesign Tower Maximum number of PCI Express lanes 16 Cooling type * Active Thermal Monitoring Technologies ✓ Product colour Black Thermal solution specification PCG 2015A Number of fans 4 fan(s) Memory types supported by processor Dual Fan diameter 12 cm Memory types supported by processor DDR4-SDRAM LED indicators HDD, LAN, USB Operational conditions Gable lock slot ✓ Operational conditions	·	1		✓
On-board graphics card base frequency 350 MHz Intel® Hyper Threading Technology (Intel® HT Technology) ★ On-board graphics card dynamic frequency (max) 1050 MHz Intel® Intel® Intel® Intru™ 3D Technology (Intel® IPT) ★ On-board graphics card ID 0x3E92 Intel® Intru™ 3D Technology (Intel® IPT) ★ Maximum on-board graphics card memory 64 GB Intel® OS Guard ★ Number of displays supported (onboard graphics) 3 Intel® Quick Sync Video Technology ★ Number of displays supported (onboard graphics) 3 Intel® Turbo Boost Technology ★ Number of displays supported (onboard graphics) 4 Turbo Boost Technology ★ Chassis type * Tower Maximum number of PCI Express lanes 16 Cooling type * Active Thermal Monitoring Technologies ★ Product colour Black Thermal solution specification PCG 2015A Number of fans 4 fan(s) Memory channels supported by processor Dual Fan diameter 2 6 cm Memory types supported by processor DDR4-SDRAM ELD indicators HDD, LAN, USB Operating temperature (T-T) 0 - 40 °C	Microphone in	✓	Intel® Clear Video Technology for	
On-board graphics card base frequency 350 MHz Intel® Hyper Threading Technology (Intel® HT Technology) ★ On-board graphics card dynamic frequency (max) 1050 MHz Intel® Identity Protection Technology (Intel® IPT) ★ On-board graphics card ID 0x3E92 Intel® InTru™ 3D Technology ✓ Maximum on-board graphics card memory 64 GB Intel® OS Guard ✓ Number of displays supported (onboard graphics) 3 Intel® Quick Sync Video Technology ✓ Number of displays supported (onboard graphics) Intel® Secure Key ✓ Chassis type * Intel® Turbo Boost Technology 2.0 Chassis type * Active Maximum number of PCI Express lanes 16 Cooling type * Active Thermal solution specification PCG 2015A Number of fans 4 fan(s) Memory channels supported by processor Dual Fan diameter 12 cm Memory types supported by processor DDR4-SDRAM Eb indicators HDD, LAN, USB Operational conditions Cable lock slot ✓ Operational conditions	Graphics			✓
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frequency (max)1050 MHzIntel® Identity Protection Technology (Intel® IPT)✓On-board graphics card ID0x3E92Intel® InTru™ 3D Technology✓Maximum on-board graphics card memory64 GBIntel® OS Guard✓Number of displays supported (onboard graphics)3Intel® Quick Sync Video Technology✓DesignIntel® Secure Key✓Chassis type *TowerMaximum number of PCI Express lanes16Cooling type *ActiveThermal Monitoring Technologies✓Product colourBlackThermal solution specificationPCG 2015ANumber of fans4 fan(s)Memory channels supported by processorPCG 2015AFan diameter12 cmMemory types supported by processorDDR4-SDRAMLED indicatorsHDD, LAN, USBOperational conditionsBuilt-in display✓Operational conditionsCable lock slot✓Operating temperature (T-T)0 - 40 °C			(Intel® HT Technology)	×
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Number of displays supported (onboard graphics) Intel® Quick Sync Video Technology	5 .	64 GB	• •	
Intel® Secure Key Value	•			
Design Intel® Turbo Boost Technology 2.0 Chassis type * Tower Maximum number of PCI Express lanes 16 Cooling type * Active Thermal Monitoring Technologies ✓ Product colour Black Thermal solution specification PCG 2015A Number of fans 4 fan(s) Memory channels supported by processor Dual Fan diameter 12 cm Memory types supported by processor DDR4-SDRAM LED indicators HDD, LAN, USB Operational conditions Built-in display ✓ Operational conditions Cable lock slot ✓ Operating temperature (T-T) 0 - 40 °C		3	•	
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LED indicators HDD, LAN, USB Built-in display ✓ Operational conditions Cable lock slot ✓ Operating temperature (T-T) 0 - 40 °C			•	DDD4_SDDAM
Cable lock slot ✓ Operating temperature (T-T) 0 - 40 °C	LED indicators	HDD, LAN, USB	processor	אואטחכ-4טטע
Operating temperature (1-1) 0 - 40 C	Built-in display	✓	Operational conditions	
Cable lock slot type Kensington	Cable lock slot	✓	Operating temperature (T-T)	0 - 40 °C
	Cable lock slot type	Kensington		

Design		Operational conditions	
Built-in speaker(s)	✓	Operating relative humidity (H-H)	5 - 95%
Number of built-in speakers	1	Logistics data	
Performance		Harmonized System (HS) code	84714100
Type *	NAS	Other features	
		Digital Living Network Alliance (DLNA) certified	✓

