

## QNAP TVS-972XU NAS Rack (1U) Ethernet LAN Black i3-8100

**Brand :** QNAP

**Product code:** TVS-972XU-I3-4G-US

**Product name :** TVS-972XU



Intel Core i3-8100 3.6 GHz, 4 GB DDR4, 4 GB Flash, 2 x 10GbE SFP+, 2 x USB 3.0, 2 x Type-C USB 3.1 Gen2, 2 x Type-A USB 3.1 Gen2, 1 x HDMI  
 QNAP TVS-972XU. Supported storage drive types: HDD & SSD, Supported storage drive interfaces: Serial ATA III, Storage drive sizes supported: 2.5,3.5". Processor family: Intel® Core™ i3, Processor manufacturer: Intel, Processor model: i3-8100. Internal memory: 4 GB, Internal memory type: DDR4, Maximum RAM supported: 64 GB. Ethernet LAN data rates: 10,100,1000 Mbit/s. Fiber optic connector: SFP+



Storage		Design	
Supported storage drive interfaces	Serial ATA III	Cable lock slot	✓
Storage drive sizes supported	2.5,3.5"	Cable lock slot type	Kensington
RAID support *	✓	Performance	
Hot-swap drive bays	✓	Type *	NAS
Storage drives installed *	✗	Backup function *	✓
Installed storage drive type *	✗	Noise level	44.1 dB
Supported storage drive types *	HDD & SSD	Reset button	✓
Processor		On/off switch	✓
Processor manufacturer *	Intel	Power	
Processor generation	8th gen Intel® Core™ i3	Power supply unit (PSU) capacity	250 W
Processor family *	Intel® Core™ i3	Number of power supply units	2
Processor model *	i3-8100	Power consumption (typical)	72.17 W
Processor frequency *	3.6 GHz	AC input voltage	100 - 240 V
Processor cores	4	Fan voltage	12 V
Processor threads	4	Weight & dimensions	
Processor cache	6 MB	Width *	482.6 mm
Bus type	DMI3	Depth *	484.1 mm
CPU configuration (max)	1	Height *	43.3 mm
ECC supported by processor	✗	Weight	7.48 kg
PCI Express configurations	1x16, 1x8+2x4, 2x8	Package weight	10.3 kg
PCI Express slots version	3.0	Processor special features	
Processor cache type	Smart Cache	Embedded options available	✓
Processor codename	Coffee Lake	Enhanced Intel SpeedStep Technology	✓
Processor lithography	14 nm	Execute Disable Bit	✓
Processor operating modes	64-bit	Idle States	✓
Processor package size	37.5 x 37.5 mm	Intel 64	✓
Processor socket	LGA 1151 (Socket H4)	Intel Clear Video Technology	✓
Scalability	1S	Intel Enhanced Halt State	✓
System bus rate	8 GT/s	Intel Identity Protection Technology version	1.00
Tjunction	100 °C	Intel Secure Key Technology version	1.00
Thermal Design Power (TDP)	65 W	Intel Stable Image Platform Program (SIPP)	✗
On-board graphics card model	Intel® UHD Graphics 630	Intel Stable Image Platform Program (SIPP) version	0.00
Maximum internal memory supported by processor	64 GB		
Memory bandwidth supported by processor (max)	37.5 GB/s		
Conflict-Free processor	✓		

Memory		Processor special features	
Internal memory type	DDR4	Intel Trusted Execution Technology	✗
Maximum RAM supported	64 GB	Intel TSX-NI	✗
Memory slots	4	Intel TSX-NI version	0.00
Internal memory *	4 GB	Intel Virtualization Technology (VT-x)	✓
Flash memory	4000 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Network		Intel VT-x with Extended Page Tables (EPT)	✓
Ethernet LAN *	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Wi-Fi	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Ports & interfaces		Intel® Hyper Threading Technology (Intel® HT Technology)	✗
USB port *	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2	Intel® InTru™ 3D Technology	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2	Intel® OS Guard	✓
Fiber ports quantity	2	Intel® Quick Sync Video Technology	✓
Fiber optic connector	SFP+	Intel® Secure Key	✓
HDMI ports quantity	1	Intel® Turbo Boost Technology	✗
HDMI version	2.0	Maximum number of PCI Express lanes	16
Ethernet LAN (RJ-45) ports *	2	Number of execution units	23
Graphics		Thermal Monitoring Technologies	✓
On-board graphics card base frequency	350 MHz	Thermal solution specification	PCG 2015C
On-board graphics card dynamic frequency (max)	1100 MHz	Memory channels supported by processor	Dual
On-board graphics card DirectX version	12.0	Memory types supported by processor	DDR4-SDRAM
On-board graphics card OpenGL version	4.5	Operational conditions	
On-board graphics card ID	0x3E91	Operating temperature (T-T)	0 - 40 °C
Maximum on-board graphics card memory	64 GB	Operating relative humidity (H-H)	5 - 95%
Number of displays supported (on-board graphics)	3	Other features	
Design		Processor ARK ID	126688
Chassis type *	Rack (1U)		
Cooling type *	Active		
Product colour	Black		
Number of fans	3 fan(s)		
Fan diameter	4 cm		
LED indicators	HDD, LAN, Status		

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