QNAP TS-983XU-RP NAS Rack (1U) Ethernet LAN Aluminium, Black E-2124

Brand : QNAP

Product code: TS-983XU-RP-E2124-8G-US

Product name : TS-983XU-RP

- DDR4 ECC memory detects and then corrects single-bit memory errors, demonstrating high reliability for crucial applications
- Two 10GbE SFP+ SmartNIC ports with iSER support accelerate large file sharing, intensive data transfer, and VMware virtualization applications
- PCIe expandability allows for graphics cards or 40GbE/ 25GbE/ 10GbE adapters to increase application performance
- Supports VMware®, Citrix®, Microsoft® Hyper-V® and Windows Server® 2016 virtualization with reliability and cost-efficiency
- Software-defined SSD extra over-provisioning combats write amplification and optimizes SSD random write speeds for IOPS-demanding applications
- Comprehensive security management, providing a security portal for your NAS and helping you to stay informed of NAS status at all times

Intel Xeon E2124 (3.3/4.3GHz), 8GB DDR4 (2666MHz), 10GbE

Storage	
Storage drive interface *	Serial ATA
Supported storage drive interfaces	Serial ATA
Storage drive sizes supported	2.5,3.5"
RAID support *	✓
RAID levels	0, 1, 5+S, 5, 6, 6+HS, 10+HS, 10, 50, 60, JBOD
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4
Storage drives installed *	✗
Number of storage drives supported *	9
Supported storage drive types *	HDD & SSD
Bad block scan	✓
Disk roaming	✓

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Xeon®
Processor model *	E-2124
Processor frequency *	3.3 GHz
Processor boost frequency	4.3 GHz
Processor cores	4
Processor threads	4
Processor cache	8 MB
Bus type	DMI3
CPU configuration (max)	1
PCI Express configurations	1x16, 2x8, 1x8+2x4
PCI Express slots version	3.0
Processor cache type	Smart Cache
Processor codename	Coffee Lake
Processor lithography	14 nm
Processor operating modes	64-bit
Processor package size	37.5 x 37.5 mm
Processor socket	LGA 1151 (Socket H4)

Performance	
Noise level	43.3 dB
Third-party support	✓
Video input channels	8 channels
Snapshot	✓
Management protocols	SNMP
Web-based management	✓
Share folder access right management	✓
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in BitTorrent client	✓
Built-in iTunes server	✓
Built-in FTP server	✓
Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
System log	✓
Hot spare	✓
S.M.A.R.T. support	✓
Share folder	512
Universal Plug and Play (UPnP)	✓

Software	
Operating system installed *	QNAP Turbo System
Operating system version	4.3.5

Processor	
Scalability	1S
System bus rate	8 GT/s
Tjunction	100 °C
Thermal Design Power (TDP)	71 W
On-board graphics card model	Not available
Maximum internal memory supported by processor	128 GB
Memory bandwidth supported by processor (max)	41.6 GB/s

Memory	
Internal memory type	DDR4
Memory clock speed	2666 MHz
Maximum RAM supported	64 GB
Memory slots	4x DIMM
Internal memory *	8 GB
Flash memory	4096 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	✓
Link aggregation	✓
Dynamic DNS (DDNS)	✓
WLAN adapter supported	✓

Ports & interfaces	
USB port *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Fiber ports quantity	2
Fiber optic connector	SFP+
Ethernet LAN (RJ-45) ports *	2

Design	
Chassis type *	Rack (1U)
Cooling type *	Active
Product colour	Aluminium, Black
Number of fans	3 fan(s)
Fan diameter	4 cm
LED indicators	HDD, LAN, SSD, Status

Performance	
Type *	NAS
Device class *	Large Enterprise Business
Backup function *	✓
Backup features	Cloud, iSCSI LUN
Buzzer	✓
Number of users	4096 user(s)

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 Pro, Windows 10 Pro x64, Windows 10 x64, Windows 7, 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 7 x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64
Linux operating systems supported	✓
Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	300 W
Number of power supply units	2
Redundant power supply (RPS) support	✓
Power consumption (typical)	84.74 W
AC input voltage	100 - 240 V
Fan voltage	12 V

Weight & dimensions	
Width *	482.6 mm
Depth *	507.5 mm
Height *	43.3 mm
Weight	8.63 kg

Packaging content	
Cables included	AC, LAN (RJ-45)
Quick installation guide	✓
Number of screws	52

Processor special features	
Embedded options available	✗
Enhanced Intel SpeedStep Technology	✓
Execute Disable Bit	✓
Idle States	✓
Intel 64	✓
Intel Enhanced Halt State	✓
Intel Secure Key Technology version	1.00
Intel Trusted Execution Technology	✓
Intel TSX-NI	✓
Intel TSX-NI version	1.00
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel VT-x with Extended Page Tables (EPT)	✓

Processor special features	
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Intel® OS Guard	✓
Intel® Secure Key	✓
Intel® Turbo Boost Technology	2.0
Maximum number of PCI Express lanes	16
Thermal Monitoring Technologies	✓
Memory types supported by processor	DDR4-SDRAM
Operational conditions	
Operating temperature (T-T)	0 - 40 °C
Operating relative humidity (H-H)	5 - 95%
Other features	
Processor ARK ID	134856

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