



QNAP TS-1283XU-RP NAS Rack (2U) Ethernet LAN Aluminium, Black E-2124



Brand : QNAP

Product code: TS-1283XU-RP-E2124-8G-US

Product name : TS-1283XU-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 E-2124 (3.3/4.3GHz), 8GB DDR4 (2666MHz), 10GbE



Storage		Performance	
Supported storage drive interfaces	Serial ATA, Serial ATA II, Serial ATA III	Buzzer	✓
Storage drive sizes supported	2.5,3.5"	Number of users	4096 user(s)
RAID support *	✓	Noise level	40.6 dB
RAID levels	0, 1, 5+S, 5, 6, 6+HS, 10+HS, 10, 50, 60, JBOD	Third-party support	✓
Online RAID migration	✓	Video input channels	8 channels
Online RAID expansion	✓	Snapshot	✓
RAID rebuild	✓	Management protocols	SNMP
Hot-swap drive bays	✓	Web-based management	✓
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Share folder access right management	✓
Storage drives installed *	✗	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMP, SSH
Number of storage drives supported *	12	Access Control List (ACL)	✓
Supported storage drive types *	HDD & SSD	Reset button	✓
Auto-rebuild	✓	On/off switch	✓
Bad block scan	✓	Built-in BitTorrent client	✓
Disk roaming	✓	Built-in iTunes server	✓
		Built-in FTP server	✓
Processor		Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
Processor manufacturer *	Intel	System log	✓
Processor family *	Intel® Xeon®	Hot spare	✓
Processor model *	E-2124	S.M.A.R.T. support	✓
Processor frequency *	3.3 GHz	Share folder	512
Processor boost frequency	4.3 GHz	Universal Plug and Play (UPnP)	✓
Processor cores	4	Software	
Processor threads	4	Operating system installed *	QNAP Turbo System
Processor cache	8 MB	Operating system version	4.3.5
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)		

Processor		Software	
Scalability	1S	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
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		Linux operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Internal memory type	DDR4		
Memory clock speed	2666 MHz		
Maximum RAM supported	64 GB		
Memory slots	4x DIMM		
Internal memory *	8 GB		
Flash memory	5120 MB		
Network		Mac operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Ethernet LAN *	✓		
Ethernet LAN data rates	10,100,1000,5000,10000 Mbit/s		
Ethernet LAN data rate supported (max)	10000 Mbit/s		
Wi-Fi	✗		
DHCP client	✓		
DHCP server	✓		
Jumbo frames support	✓	Server operating systems supported	
iSCSI support	✓		
Wake-on-LAN ready	✓		
Link aggregation	✓		
Dynamic DNS (DDNS)	✓		
WLAN adapter supported	✓		
Ports & interfaces		Power	
USB port *	✓	Power supply location	Built-in
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	4	Power supply unit (PSU) capacity	300 W
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2	Number of power supply units	2
Fiber ports quantity	2	Redundant power supply (RPS) support	✓
Fiber optic connector	SFP+	Power consumption (typical)	105.12 W
Ethernet LAN (RJ-45) ports *	4	AC input voltage	100 - 240 V
PCI Express x4 (Gen 3.x) slots	2	Fan voltage	12 V
PCI Express x8 (Gen 3.x) slots	1	Weight & dimensions	
Design		Width *	482 mm
Chassis type *	Rack (2U)	Depth *	562 mm
Cooling type *	Active	Height *	88.3 mm
Product colour	Aluminium, Black	Weight	11.8 kg
Number of fans	2 fan(s)	Packaging content	
Fan diameter	6 cm	Cables included	AC, LAN (RJ-45)
LED indicators	HDD, LAN, Status	Quick installation guide	✓
Performance		Number of screws	84
Type *	NAS	Processor special features	
Device class *	Large Enterprise Business	Embedded options available	✗
Backup function *	✓	Enhanced Intel SpeedStep Technology	✓
Backup features	Cloud, iSCSI LUN	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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