



QNAP TS-1683XU-RP NAS Rack (3U) Ethernet LAN Aluminium, Black E-2124



Brand : QNAP

Product code: TS-1683XU-RP-E2124-16G-US

Product name : TS-1683XU-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), 16GB DDR4 (2666MHz), 10GbE LAN

Storage		Performance	
Supported storage drive interfaces	Serial ATA II, Serial ATA III	Buzzer	✓
Storage drive sizes supported	2.5,3.5"	Noise level	53 dB
RAID support *	✓	Third-party support	✓
RAID levels	0, 5+S, 5, 6, 6+HS, 10+HS, 10, 50, 60, JBOD	Snapshot	✓
Online RAID migration	✓	Management protocols	SNMP
Online RAID expansion	✓	Web-based management	✓
RAID rebuild	✓	Share folder access right management	✓
Hot-swap drive bays	✓	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMP, SSH
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Access Control List (ACL)	✓
Storage drives installed *	✗	Reset button	✓
Number of storage drives supported *	16	On/off switch	✓
Supported storage drive types *	HDD & SSD	Built-in BitTorrent client	✓
Bad block scan	✓	Built-in FTP server	✓
Disk roaming	✓	Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
Processor		System log	✓
Processor manufacturer *	Intel	Hot spare	✓
Processor family *	Intel® Xeon®	S.M.A.R.T. support	✓
Processor model *	E-2124	Universal Plug and Play (UPnP)	✓
Processor frequency *	3.3 GHz	Software	
Bus type	DMI3	Operating system installed *	QNAP Turbo System
CPU configuration (max)	1	Operating system version	4.3.5
Memory			
Internal memory type	DDR4		
Memory clock speed	2666 MHz		
Maximum RAM supported	128 GB		
Memory slots	4x LDIMM		
Internal memory *	16 GB		
Memory form factor	DIMM		
ECC	✓		
Flash memory	5120 MB		
Network			
Ethernet LAN *	✓		
Ethernet LAN data rates	10,100,1000,10000 Mbit/s		

Network		Software	
Ethernet LAN data rate supported (max)	10000 Mbit/s		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
DHCP client	✓	Windows operating systems supported	
DHCP server	✓		
Jumbo frames support	✓		
iSCSI support	✓		
Wake-on-LAN ready	✓		
Link aggregation	✓		
Load balancing system	✓		
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 1 (3.1 Gen 1) Type-C ports quantity	2		
Fiber ports quantity	2	Linux operating systems supported	✓
Fiber optic connector	SFP+		
Ethernet LAN (RJ-45) ports *	4	Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks, Mac OS X 11.0 Big Sur
PCI Express x4 (Gen 3.x) slots	2		
PCI Express x8 (Gen 3.x) slots	1	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Design			
Chassis type *	Rack (3U)		
Cooling type *	Active		
Product colour	Aluminium, Black		
Number of fans	4 fan(s)		
Fan diameter	9.2 cm		
LED indicators	HDD, LAN, Status		
Performance			
Type *	NAS		
Device class *	Large Enterprise Business		
Backup function *	✓		
Backup features	Cloud, iSCSI LUN		
		Power	
		Power supply location	Built-in
		Power supply unit (PSU) capacity	500 W
		Number of power supply units	2
		Redundant power supply (RPS) support	✓
		Power consumption (typical)	130.43 W
		AC input voltage	100 - 240 V
		Fan voltage	12 V
		Weight & dimensions	
		Width *	481 mm
		Depth *	573.5 mm
		Height *	130 mm
		Weight	13.8 kg
		Package weight	21.8 kg
		Packaging content	
		Cables included	AC, LAN (RJ-45)
		Number of screws	128
		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)	✓

Operational conditions

Operating temperature (T-T)	0 - 40 °C
Operating relative humidity (H-H)	5 - 95%

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