



QNAP TS-EC880U R2 NAS Rack (2U) Ethernet LAN Black i3-4150

Brand : QNAP

Product code: TS-EC880U-I3-8G-R2-US



Product name : TS-EC880U R2

i3-4150, 8GB DDR3 RAM, 8x 2.5/3.5", SATA, 6Gbps, 10Gbps SFP+, USB 3.0

[QNAP TS-EC880U R2 NAS Rack \(2U\) Ethernet LAN Black i3-4150:](#)

QNAP TS-EC880U R2, featuring the easy-to-use QTS operating system, provides a reliable and scalable NAS solution to fulfill data backup, file synchronization and remote access. The TS-EC880U R2 is 10GbE-ready, delivers exceptional performance, and supports cross-platform file sharing, comprehensive backup solutions, iSCSI and virtualization applications, and many practical business functions, making it the ideal choice for SMBs to secure important business data. It also includes abundant multimedia applications backed by its powerful hardware specifications.



- Built-in 10GbE, highly-efficient storage solution for HD video editing and sharing
- 3,700+ MB/s throughput and 400,000+ IOPS
- Two internal cache ports and up to 4 SSDs for caching
- Scalable design, up to 816TB raw capacity
- Virtualization-ready, centralized data storage, backup, sharing and disaster recovery



Storage		Performance	
Storage drive interface *	Serial ATA III, mSATA	Type *	NAS
Storage drive size	2.5/3.5"	Device class *	Large Enterprise Business
RAID support *	✓	Backup function *	✓
RAID levels	0, 1, 5, 6, 10, JBOD	Backup features	Cloud, iSCSI LUN
Hot-swap drive bays	✓	Buzzer	✓
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Multilingual support	✓
Storage drives installed *	✗	Noise level	55.2 dB
Number of storage drives supported *	8	Web-based management	✓
Installed storage drive type *	✗	Access Control List (ACL)	✓
Supported storage drive types *	HDD & SSD	On/off switch	✓
		Built-in FTP server	✓
Processor		Software	
Processor manufacturer *	Intel	Operating system installed *	QNAP Turbo NAS System
Processor generation	4th gen Intel® Core™ i3	Linux operating systems supported	✓
Processor family *	Intel® Core™ i3		Mac OS X 10.0 Cheetah, Mac OS X 10.1 Puma, Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.2 Jaguar, Mac OS X 10.3 Panther, Mac OS X 10.4 Tiger, Mac OS X 10.5 Leopard, Mac OS X 10.6 Snow Leopard, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Processor model *	i3-4150	Mac operating systems supported	Windows Home Server 2011, Windows MultiPoint Server 2011, Windows SBS 2011 Essentials, Windows SBS 2011 Standard, Windows Server 2003, Windows Server 2003 R2, Windows Server 2003 x64, Windows Server 2008, Windows Server 2008 R2, Windows Server 2008 R2 x64, Windows Server 2008 x64, Windows Server 2012 R2 x64, Windows Server 2012 x64, Windows Server 2013, Windows Small Business Server 2003, Windows Small Business Server 2008, Windows Small Business Server 2011, Windows Small Business Server 2011 x64
Processor frequency *	3.5 GHz		
Processor cores	2		
Processor threads	4		
Processor cache	3 MB		
L3 cache	3 MB		
Bus type	DMI		
CPU configuration (max)	1		
ECC supported by processor	✓		
PCI Express configurations	1x16, 2x8, 1x8+2x4		
PCI Express slots version	3.0		
Processor cache type	Smart Cache		
Processor code	SR1PJ		
Processor codename	Haswell		
Processor lithography	22 nm		
Processor operating modes	32-bit, 64-bit		
Processor package size	37.5 x 37.5 mm		
Processor series	Intel Core i3-4100 Desktop series		
Processor socket	LGA 1150 (Socket H3)		
Scalability	1S		
Stepping	C0		
		Power	
		Power supply location	Built-in

Processor		Power	
System bus rate	5 GT/s	Power supply unit (PSU) capacity	400 W
Tcase	72 °C	Redundant power supply (RPS) support	✓
Thermal Design Power (TDP)	54 W	Power consumption (typical)	133.88 W
On-board graphics card model	Intel® HD Graphics 4400	Power consumption (sleep)	73.38 W
Maximum internal memory supported by processor	32 GB	AC input voltage	100-240 V
Memory bandwidth supported by processor (max)	25.6 GB/s	AC input frequency	50 - 60 Hz
Conflict-Free processor	✓	Weight & dimensions	
Memory		Width *	442.5 mm
Internal memory type	DDR3	Depth *	530.5 mm
Maximum RAM supported	32 GB	Height *	88 mm
Memory slots	4	Packaging content	
Internal memory *	8 GB	Cables included	AC, LAN (RJ-45)
Flash memory	512 MB	Quick installation guide	✓
Network		Number of screws	64
Ethernet LAN *	✓	Processor special features	
Ethernet LAN data rates	10,100,1000,10000 Mbit/s	Embedded options available	✗
Wi-Fi	✗	Enhanced Intel SpeedStep Technology	✓
DHCP client	✓	Execute Disable Bit	✓
DHCP server	✓	Graphics & IMC lithography	22 nm
Jumbo frames support	✓	Idle States	✓
iSCSI support	✓	Intel 64	✓
Wake-on-LAN ready	✓	Intel Enhanced Halt State	✓
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS (v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC	Intel Small Business Advantage (SBA) version	1.00
Link aggregation	✓	Intel Stable Image Platform Program (SIPP)	✗
Ports & interfaces		Intel Stable Image Platform Program (SIPP) version	0.00
USB 2.0 ports quantity	4	Intel Trusted Execution Technology	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Intel TSX-NI	✗
Fiber ports quantity	2	Intel TSX-NI version	0.00
Fiber optic connector	SFP+	Intel Virtualization Technology (VT-x)	✓
HDMI ports quantity	1	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Ethernet LAN (RJ-45) ports *	4	Intel VT-x with Extended Page Tables (EPT)	✓
Graphics		Intel® AES New Instructions (Intel® AES-NI)	✓
On-board graphics card base frequency	350 MHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card DirectX version	11.1	Intel® InTru™ 3D Technology	✓
On-board graphics card ID	0x41E	Intel® Quick Sync Video Technology	✓
Maximum on-board graphics card memory	1.024 GB	Intel® Smart Cache	✓
Number of displays supported (on-board graphics)	3	Intel® Turbo Boost Technology	✗
Design		Intel® Wireless Display (Intel® WiDi)	✓
Chassis type *	Rack (2U)	Maximum number of PCI Express lanes	16
Cooling type *	Active	Thermal Monitoring Technologies	✓
Product colour	Black	Thermal solution specification	PCG 2013C
Number of fans	4 fan(s)	Memory channels supported by processor	Dual
Fan diameter	6 cm	Memory types supported by processor	DDR3-SDRAM
Drive bay locking	✓	Operational conditions	
LED indicators	✓	Operating temperature (T-T)	0 - 40 °C
		Operating relative humidity (H-H)	5 - 95%

Other features

Processor ARK ID

77486

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