

QNAP TS-EC1280U R2 NAS Rack (2U) Ethernet LAN Black i3-4150

Brand : QNAP

Product code: TS-EC1280U-I3-8G-R2-US

Product name : TS-EC1280U R2



Intel Core i3-4150, 8 GB non-ECC DDR3, 512MB Flash, 12 x 3.5"/2.5", LAN x 4, USB 3.0 x 4, USB 2.0 x 4, 400W, 2U

QNAP TS-EC1280U R2 NAS Rack (2U) Ethernet LAN Black i3-4150:

QNAP TS-EC1280U 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-EC1280U 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
- 3,500+ MB/s throughput and 390,000+ IOPS
- Two internal cache ports and up to 4 SSDs for caching
- Scalable design, up to 840TB raw capacity
- Virtualization-ready, centralized data storage, backup, sharing and disaster recovery



Storage		Performance	
Storage drive interface *	Serial ATA II, Serial ATA III, mSATA	Backup function *	✓
Storage drive size	2.5/3.5"	Backup features	Cloud, iSCSI LUN
RAID support *	✓	Buzzer	✓
RAID levels	0, 1, 5, 6, 10, JBOD	Multilingual support	✓
Hot-swap drive bays	✓	Noise level	55.3 dB
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Web-based management	✓
Storage drives installed *	✗	Security algorithms	256-bit AES, HTTPS, SNMP, SSH, SSL/TLS
Number of storage drives supported *	12	Access Control List (ACL)	✓
Installed storage drive type *	✗	Reset button	✓
Supported storage drive types *	HDD & SSD	On/off switch	✓
Processor		S.M.A.R.T. support	✓
Processor manufacturer *	Intel	Software	
Processor generation	4th gen Intel® Core™ i3	Operating system installed *	QNAP Turbo System
Processor family *	Intel® Core™ i3	Linux operating systems supported	✓
Processor model *	i3-4150	Mac operating systems supported	✓
Processor frequency *	3.5 GHz	Server operating systems supported	Windows Server 2003
Processor cores	2	Power	
Processor threads	4	Power supply location	Built-in
Processor cache	3 MB	Power supply unit (PSU) capacity	400 W
L3 cache	3 MB	Redundant power supply (RPS) support	✓
Bus type	DMI	Power consumption (typical)	166.58 W
CPU configuration (max)	1	Power consumption (sleep)	80.41 W
ECC supported by processor	✓	AC input voltage	100-240 V
PCI Express configurations	1x16, 2x8, 1x8+2x4	AC input frequency	47/63 Hz
PCI Express slots version	3.0	Weight & dimensions	
Processor cache type	Smart Cache	Width *	442.5 mm
Processor code	SR1PJ	Depth *	530.5 mm
Processor codename	Haswell	Height *	88 mm
Processor lithography	22 nm	Weight	14.2 kg
Processor operating modes	32-bit, 64-bit	Package weight	21.4 kg
Processor package size	37.5 x 37.5 mm	Packaging content	
Processor series	Intel Core i3-4100 Desktop series	Cables included	AC
Processor socket	LGA 1150 (Socket H3)		
Scalability	1S		
Stepping	C0		

Processor		Packaging content	
System bus rate	5 GT/s	Quick installation guide	✓
Tcase	72 °C	Quick start guide	✓
Thermal Design Power (TDP)	54 W	Number of screws	96
On-board graphics card model	Intel® HD Graphics 4400	Processor special features	
Maximum internal memory supported by processor	32 GB	Embedded options available	✗
Memory bandwidth supported by processor (max)	25.6 GB/s	Enhanced Intel SpeedStep Technology	✓
Conflict-Free processor	✓	Execute Disable Bit	✓
Memory		Graphics & IMC lithography	22 nm
Internal memory type	DDR3	Idle States	✓
Maximum RAM supported	32 GB	Intel 64	✓
Memory slots	4	Intel Enhanced Halt State	✓
Internal memory *	8 GB	Intel Small Business Advantage (SBA) version	1.00
Flash memory	512 MB	Intel Stable Image Platform Program (SIPP)	✗
Network		Intel Stable Image Platform Program (SIPP) version	0.00
Ethernet LAN *	✓	Intel Trusted Execution Technology	✗
Ethernet LAN data rates	10,100,1000,10000 Mbit/s	Intel TSX-NI	✗
Wi-Fi	✗	Intel TSX-NI version	0.00
DHCP client	✓	Intel Virtualization Technology (VT-x)	✓
DHCP server	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Jumbo frames support	✓	Intel VT-x with Extended Page Tables (EPT)	✓
iSCSI support	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Wake-on-LAN ready	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS (v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Link aggregation	✓	Intel® InTru™ 3D Technology	✓
Ports & interfaces		Intel® Quick Sync Video Technology	✓
USB 2.0 ports quantity	4	Intel® Smart Cache	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Intel® Turbo Boost Technology	✗
Fiber ports quantity	2	Intel® Wireless Display (Intel® WiDi)	✓
Fiber optic connector	SFP+	Maximum number of PCI Express lanes	16
HDMI ports quantity	1	Thermal Monitoring Technologies	✓
Ethernet LAN (RJ-45) ports *	4	Thermal solution specification	PCG 2013C
Graphics		Memory channels supported by processor	Dual
On-board graphics card base frequency	350 MHz	Memory types supported by processor	DDR3-SDRAM
On-board graphics card dynamic frequency (max)	1150 MHz	Operational conditions	
On-board graphics card DirectX version	11.1	Operating temperature (T-T)	0 - 40 °C
On-board graphics card ID	0x41E	Operating relative humidity (H-H)	5 - 95%
Maximum on-board graphics card memory	1.024 GB	Other features	
Number of displays supported (on-board graphics)	3	Processor ARK ID	77486
Design			
Chassis type *	Rack (2U)		
Cooling type *	Active		
Product colour	Black		
Number of fans	4 fan(s)		
Fan diameter	6 cm		
Drive bay locking	✓		
LED indicators	✓		
Performance			
Type *	NAS		
Device class *	Large Enterprise Business		

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