



# QNAP TVS-EC2480U-SAS-RP R2 NAS Rack (4U) Ethernet LAN Black, Grey E3-1246V3



**Brand :** QNAP

**Product code:** TVS-EC2480U-SAS-RP-16G-R2-US

**Product name :** TVS-EC2480U-SAS-RP R2

Intel Xeon E3-1246 v3 3.5GHz, 16GB DDR3 non-ECC, 512MB DOM, 24x 3.5" SAS/SATA 6Gbps/3Gbps, 2x 10GbE SFP+, 4x GbE, 4x USB 3.0, 4x USB 2.0, 36.2dB, 8x PCIe Gen3, 4x PCIe Gen3  
 QNAP TVS-EC2480U-SAS-RP R2. Supported storage drive types: HDD & SSD, Storage drive interface: Serial ATA II, Serial ATA III, mSATA, Storage drive size: 2.5/3.5". Processor family: Intel® Xeon® E3 V3 Family, Processor manufacturer: Intel, Processor model: E3-1246V3. Internal memory: 16 GB, Internal memory type: DDR3, Maximum RAM supported: 32 GB. Ethernet LAN data rates: 10,100,1000,10000 Mbit/s, Supported network protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC. Fiber optic connector: SFP+

Storage		Software	
Storage drive interface *	Serial ATA II, Serial ATA III, mSATA	Operating system installed *	QNAP Turbo System
Storage drive size	2.5/3.5"	Operating system version	4.2
RAID support *	✓	Linux operating systems supported	✓
RAID levels	0, 1, 5, 6, 10, JBOD	Mac operating systems supported	✓
Hot-swap drive bays	✓	Server operating systems supported	Windows Server 2003
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Power	
Storage drives installed *	✗	Power supply location	Built-in
Number of storage drives supported *	24	Power supply unit (PSU) capacity	650 W
Installed storage drive type *	✗	Number of power supply units	2
Supported storage drive types *	HDD & SSD	Redundant power supply (RPS) support	✓
Processor		Power consumption (typical)	263.81 W
Processor manufacturer *	Intel	Power consumption (sleep)	129.43 W
Processor family *	Intel® Xeon® E3 V3 Family	AC input voltage	90-264 V
Processor model *	E3-1246V3	AC input frequency	50 - 60 Hz
Processor frequency *	3.5 GHz	Weight & dimensions	
Processor boost frequency	3.9 GHz	Width *	442.5 mm
Processor cores	4	Depth *	530.5 mm
Processor threads	8	Height *	176.2 mm
Processor cache	8 MB	Weight	23.1 kg
L3 cache	8 MB	Package weight	28.6 kg
Bus type	DMI2	Packaging content	
CPU configuration (max)	1	Cables included	AC, LAN (RJ-45)
ECC supported by processor	✓	Quick installation guide	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Quick start guide	✓
PCI Express slots version	3.0	Number of screws	192
Processor cache type	Smart Cache	Processor special features	
Processor codename	Haswell	Embedded options available	✗
Processor lithography	22 nm	Enhanced Intel SpeedStep Technology	✓
Processor operating modes	32-bit, 64-bit	Execute Disable Bit	✓
Processor package size	37.5 x 37.5 mm	Graphics & IMC lithography	22 nm
Processor series	Intel Xeon E3-1200 v3	Idle States	✓
Processor socket	LGA 1150 (Socket H3)	Intel 64	✓
Scalability	1S	Intel Enhanced Halt State	✓
Stepping	C0	Intel Fast Memory Access	✓
System bus rate	5 GT/s	Intel FDI Technology	✓
Thermal Design Power (TDP)	84 W	Intel Flex Memory Access	✓
On-board graphics card model	Intel® HD Graphics P4600	Intel I/O Acceleration Technology	✓
Maximum internal memory supported by processor	32 GB		

Processor		Processor special features	
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Identity Protection Technology version	1.00
Conflict-Free processor	✗	Intel Secure Key Technology version	1.00
Memory		Intel Stable Image Platform Program (SIPP)	✓
Internal memory type	DDR3	Intel Stable Image Platform Program (SIPP) version	1.00
Maximum RAM supported	32 GB	Intel Trusted Execution Technology	✓
Memory slots	4	Intel TSX-NI	✓
Internal memory *	16 GB	Intel TSX-NI version	1.00
Flash memory	512 MB	Intel Virtualization Technology (VT-x)	✓
Network		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Ethernet LAN *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Ethernet LAN data rates	10,100,1000,10000 Mbit/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Wi-Fi	✗	Intel® Anti-Theft Technology (Intel® AT)	✓
DHCP client	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
DHCP server	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Jumbo frames support	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
iSCSI support	✓	Intel® Insider™	✓
Wake-on-LAN ready	✓	Intel® InTru™ 3D Technology	✓
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC	Intel® My WiFi Technology (Intel® MWT)	✗
Link aggregation	✓	Intel® OS Guard	✓
Ports & interfaces		Intel® Quick Sync Video Technology	✓
USB 2.0 ports quantity	4	Intel® Secure Key	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Intel® Smart Cache	✓
Fiber ports quantity	2	Intel® Turbo Boost Technology	2.0
Fiber optic connector	SFP+	Intel® Wireless Display (Intel® WiDi)	✓
HDMI ports quantity	2	Maximum number of PCI Express lanes	16
Ethernet LAN (RJ-45) ports *	4	Number of execution units	20
External mini-SAS ports	1	Thermal Monitoring Technologies	✓
Graphics		Thermal solution specification	PCG 2013D
On-board graphics card base frequency	350 MHz	Memory channels supported by processor	Dual
On-board graphics card dynamic frequency (max)	1200 MHz	Memory types supported by processor	DDR3-SDRAM
On-board graphics card DirectX version	11.2		
Maximum on-board graphics card memory	1.74 GB	Operational conditions	
Number of displays supported (on-board graphics)	3	Operating temperature (T-T)	0 - 40 °C
Design		Operating relative humidity (H-H)	5 - 95%
Chassis type *	Rack (4U)	Other features	
Cooling type *	Active	Processor ARK ID	80916
Product colour	Black, Grey		
Number of fans	4 fan(s)		
Fan diameter	8 cm		
Drive bay locking	✓		
LED indicators	✓		
Performance			
Type *	NAS		
Device class *	Large Enterprise Business		
Backup function *	✓		
Backup features	Cloud, iSCSI LUN		
Buzzer	✓		
Multilingual support	✓		
Noise level	48.3 dB		
Web-based management	✓		

## Performance

Security algorithms	256-bit AES, FIPS 140-2, FTPES, HTTPS, SSH, SSL/TLS
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in FTP server	✓

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