QNAP

QNAP TS-253Be NAS Tower Ethernet LAN Black, Blue J3455

Brand : QNAP

Product name : TS-253Be

Product code: TS-253BE-4G-US

- The PCIe port supports installing a 10GbE network card, a QM2 dual-port M.2 SSD/10GbE card, a USB 3.1 10Gbps card or a compatible PCIe wireless adapter
- 4K media playback and online transcoding; multimedia viewing on HDTV via HDMI output
- Snapshots fully record the system status and data. If files are accidentally deleted or modified, you can quickly restore the previously-recorded data
- Hybrid Backup Sync consolidates backup and sync tasks into a single app
- Secure private cloud solution with high storage scalability
- Supports containerized applications and hosting multi-OS virtual machines
Intel Celeron J3455 (1.5/2.3GHz), 4GB DDR3L, Gigabit LAN

Storage

Supported storage drive interfaces	Serial ATA III
Storage drive sizes supported	2.5,3.5"
RAID support *	✔
RAID levels	0, 1, 5+S, 5, 6, 10, JBOD
Hot-swap drive bays	✔
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4
Storage drives installed *	✘
Number of storage drives supported *	2
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Celeron®
Processor model *	J3455
Processor frequency *	1.5 GHz
Processor boost frequency	2.3 GHz
Processor cores	4
Processor threads	4
Processor cache	2 MB
CPU configuration (max)	1
ECC supported by processor	✘
PCI Express configurations	1x2+2x1, 4x1
PCI Express slots version	2.0
Processor cache type	Smart Cache
Processor code	SR2Z9
Processor codename	Apollo Lake
Processor lithography	14 nm
Processor operating modes	64-bit
Processor package size	24 x 31 mm
Processor socket	BGA 1296
Stepping	B1
Tjunction	105 °C
Thermal Design Power (TDP)	10 W
On-board graphics card model	Intel® HD Graphics 500

Performance

Universal Plug and Play (UPnP)	✔
USB copy function	✔

Software

Operating system installed *	QNAP Turbo System
Operating system version	4.3.4
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 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
Linux operating systems supported	✔
Mac operating systems supported	✔
Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016

Power

Power supply location	External
Power supply unit (PSU) capacity	65 W
Number of power supply units	1
Power consumption (typical)	20.42 W
Power consumption (sleep)	13.07 W
AC input voltage	100 - 240 V

Weight & dimensions

Width *	105 mm

Processor

Maximum internal memory supported by processor	8 GB
Conflict-Free processor	✓

Memory

Internal memory type	DDR3L
Memory clock speed	1866 MHz
Maximum RAM supported	8 GB
Memory slots	2x SODIMM
Internal memory *	4 GB
Flash memory	512 MB

Network

Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi	✗
DHCP client	✓
DHCP server	✓
Jumbo frames support	✓
iSCSI support	✓
Wake-on-LAN ready	✓
Supported network protocols	IPv4/v6, STP, FTP, CIFS/SMB, AFP, FXP, PPTP
Link aggregation	✓
Dynamic DNS (DDNS)	✓
WLAN adapter supported	✓

Ports & interfaces

USB port *	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	5
HDMI ports quantity	2
HDMI version	1.4b
Ethernet LAN (RJ-45) ports *	2
3.5 mm (1/8-inch) out	✓
Audio in/out	✓

Graphics

On-board graphics card base frequency	250 MHz
On-board graphics card burst frequency	750 MHz
On-board graphics card dynamic frequency (max)	750 MHz
Maximum on-board graphics card memory	8 GB
Number of displays supported (on-board graphics)	3

Design

Chassis type *	Tower
Cooling type *	Active
Product colour	Black, Blue
Number of fans	1 fan(s)
Fan diameter	12 cm
LED indicators	HDD, LAN, Power, Status, USB
Cable lock slot	✓
Cable lock slot type	Kensington

Performance

Type *	NAS
Device class *	Small & Medium Business
Backup function *	✓
Backup features	Cloud, USB drive, iSCSI LUN
Number of users	4096 user(s)
Noise level	16.7 dB

Weight & dimensions

Depth *	226 mm
Height *	168 mm
Weight	1.66 kg
Package weight	2.76 kg

Packaging content

External power adapter	✓
Cables included	AC, LAN (RJ-45)
Quick installation guide	✓
Number of screws	6

Processor special features

Embedded options available	✓
Enhanced Intel SpeedStep Technology	✓
Execute Disable Bit	✓
Idle States	✓
Intel 64	✓
Intel Clear Video Technology	✓
Intel Enhanced Halt State	✓
Intel Identity Protection Technology version	1.00
Intel Rapid Storage Technology	✗
Intel Secure Boot	✓
Intel Secure Boot Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Small Business Advantage (SBA) version	0.00
Intel Smart Connect Technology	✗
Intel Smart Connect Technology version	0.00
Intel Smart Response Technology version	0.00
Intel Stable Image Platform Program (SIPP)	✗
Intel Stable Image Platform Program (SIPP) version	0.00
Intel Trusted Execution Technology	✗
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel® Anti-Theft Technology (Intel® AT)	✗
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Intel® High Definition Audio (Intel® HD Audio)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Insider™	✗
Intel® InTru™ 3D Technology	✗
Intel® OS Guard	✗
Intel® Quick Sync Video Technology	✓
Intel® Secure Key	✓
Intel® Small Business Advantage (Intel® SBA)	✗

Performance

Third-party support	✓
Snapshot	✓
Management protocols	SNMP
Web-based management	✓
Share folder access right management	✓
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH
Reset button	✓
On/off switch	✓
Built-in BitTorrent client	✓
Built-in iTunes server	✓
Built-in FTP server	✓
Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
System log	✓
Hot spare	✓
Share folder	512
Remotely operated	✓
Backup button	✓

Processor special features

Intel® Smart Response Technology	✗
Intel® Turbo Boost Technology	✗
Intel® Wireless Display (Intel® WiDi)	✗
Maximum number of PCI Express lanes	6
Number of execution units	12
Thermal Monitoring Technologies	✓
UART	✓
Memory channels supported by processor	Dual
Memory types supported by processor	DDR3L, LPDDR3-SDRAM, LPDDR4-SDRAM

Operational conditions

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

Other features

Processor ARK ID	95594