



QNAP TS-453BU NAS Rack (1U) Intel® Celeron® J3455 HDD QNAP Turbo System Aluminium, Black

Brand : QNAP

Product code: TS-453BU-2G-16TB-GLD

Product name : TS-453BU



16TB (Western Digital Gold), Intel Apollo Lake J3455 (1.5/2.3GHz), 2GB DDR3L, Gigabit LAN
 QNAP TS-453BU. Type: NAS. Chassis type: Rack (1U). Processor family: Intel® Celeron®, Processor model: J3455, Processor frequency: 1.5 GHz. Installed storage drive type: HDD. Operating system installed: QNAP Turbo System



Storage		Software	
Storage drive interface *	Serial ATA III	Linux operating systems supported	✓
RAID support *	✓	Mac compatibility	✓
RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD	Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Online RAID migration	✓	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Online RAID expansion	✓		
Hot-swap drive bays	✓		
Supported file systems	HFS+, exFAT, ext3, ext4		
Storage drives installed *	✓		
Number of storage drives supported *	4		
Installed storage drive type *	HDD		
Supported storage drive types *	HDD & SSD		
Bad block scan	✓		
Processor		Power	
Processor manufacturer *	Intel	Power supply location	Built-in
Processor family *	Intel® Celeron®	Power supply unit (PSU) capacity	250 W
Processor model *	J3455	Number of power supply units	1
Processor frequency *	1.5 GHz	Redundant power supply (RPS) support	✗
Processor boost frequency	2.3 GHz	Power consumption (typical)	31.5 W
Processor cores	4	Power consumption (HDD standby)	21.3 W
Processor threads	4	AC input voltage	100 - 240 V
Processor cache	2 MB	AC input frequency	50 - 60 Hz
CPU configuration (max)	1	Fan voltage	12 V
ECC supported by processor	✗	Weight & dimensions	
PCI Express configurations	1x2+2x1, 4x1	Width *	439 mm
PCI Express slots version	2.0	Depth *	499 mm
Processor cache type	Smart Cache	Height *	44 mm
Processor code	SR2Z9	Weight	6.53 kg
Processor codename	Apollo Lake	Package weight	9.47 kg
Processor lithography	14 nm	Packaging content	
Processor operating modes	64-bit	Cables included	AC, LAN (RJ-45)
Processor package size	24 x 31 mm	Quick installation guide	✓
Processor socket	BGA 1296	Processor special features	
Stepping	B1	Embedded options available	✓
Tjunction	105 °C	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	10 W	Execute Disable Bit	✓
		Idle States	✓
		Intel 64	✓

Processor		Processor special features	
On-board graphics card model	Intel® HD Graphics 500	Intel Clear Video Technology	✓
Maximum internal memory supported by processor	8 GB	Intel Enhanced Halt State	✓
Conflict-Free processor	✓	Intel Identity Protection Technology version	1.00
Memory		Intel Rapid Storage Technology	✗
Maximum RAM supported	8 GB	Intel Secure Boot	✓
Memory slots	2	Intel Secure Boot Technology version	1.00
Memory form factor	SO-DIMM	Intel Secure Key Technology version	1.00
Flash memory	4096 MB	Intel Small Business Advantage (SBA) version	0.00
Network		Intel Smart Connect Technology	✗
Ethernet LAN *	✓	Intel Smart Connect Technology version	0.00
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel Smart Response Technology version	0.00
Wi-Fi	✗	Intel Stable Image Platform Program (SIPP)	✗
DHCP client	✓	Intel Stable Image Platform Program (SIPP) version	0.00
DHCP server	✓	Intel Trusted Execution Technology	✗
Jumbo frames support	✓	Intel Virtualization Technology (VT-x)	✓
iSCSI support	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Wake-on-LAN ready	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC	Intel® AES New Instructions (Intel® AES-NI)	✓
Dynamic DNS (DDNS)	✓	Intel® Anti-Theft Technology (Intel® AT)	✗
Ports & interfaces		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
USB port *	✓	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Intel® High Definition Audio (Intel® HD Audio)	✓
HDMI ports quantity	1	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
HDMI version	1.4b	Intel® Identity Protection Technology (Intel® IPT)	✓
Ethernet LAN (RJ-45) ports *	4	Intel® Insider™	✗
Graphics		Intel® InTru™ 3D Technology	✗
On-board graphics card base frequency	250 MHz	Intel® OS Guard	✗
On-board graphics card burst frequency	750 MHz	Intel® Quick Sync Video Technology	✓
On-board graphics card dynamic frequency (max)	750 MHz	Intel® Secure Key	✓
Maximum on-board graphics card memory	8 GB	Intel® Small Business Advantage (Intel® SBA)	✗
Number of displays supported (on-board graphics)	3	Intel® Smart Response Technology	✗
Design		Intel® Turbo Boost Technology	✗
Chassis type *	Rack (1U)	Intel® Wireless Display (Intel® WiDi)	✗
Cooling type *	Active	Maximum number of PCI Express lanes	6
Product colour	Aluminium, Black	Number of execution units	12
Number of fans	2 fan(s)	Thermal Monitoring Technologies	✓
Fan diameter	4 cm	UART	✓
LED indicators	HDD, LAN, Status, USB	Memory channels supported by processor	Dual
Performance		Memory types supported by processor	DDR3L, LPDDR3-SDRAM, LPDDR4-SDRAM
Type *	NAS	Operational conditions	
Backup function *	✓	Operating temperature (T-T)	0 - 40 °C
Backup features	Cloud, iSCSI LUN	Operating relative humidity (H-H)	0 - 95%
Buzzer	✓		
Multilingual support	✓		
Number of users	4096 user(s)		
Noise level	38.6 dB		
Management protocols	SNMP		
Web-based management	✓		
Share folder access right management	✓		
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH		

Performance		Other features	
Reset button	✓	Processor ARK ID	95594
On/off switch	✓		
Built-in iTunes server	✓		
Built-in FTP server	✓		
Browser supported	Microsoft Internet Explorer 10+, Google Chrome, Mozilla Firefox, Apple Safari 7+		
System log	✓		
Hot spare	✓		
S.M.A.R.T. support	✓		
Share folder	512		
Software			
Operating system installed *	QNAP Turbo System		
Operating system version	4.3		
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 IOT Core, 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		

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