



# QNAP TS-853BU-RP NAS Rack (2U) Ethernet LAN Black J3455

Brand : QNAP

Product code: TS-853BU-RP-4G-US

Product name : TS-853BU-RP



Intel Apollo Lake J3455, 4 GB DDR3L, 4GB eMMC, USB 3.0 x 4, LAN x 4, HDMI, 2U  
QNAP TS-853BU-RP. Supported storage drive types: HDD & SSD, Storage drive interface: Serial ATA III, RAID levels: 0, 1, 5, 6, 10, JBOD. Processor family: Intel® Celeron®, Processor manufacturer: Intel, Processor model: J3455. Internal memory: 4 GB, Internal memory type: DDR3L, Maximum RAM supported: 8 GB. Ethernet LAN data rates: 10,100,1000 Mbit/s. HDMI version: 1.4b



Storage		Power	
Storage drive interface *	Serial ATA III	Power supply unit (PSU) capacity	250 W
RAID support *	✓	Redundant power supply (RPS) support	✓
RAID levels	0, 1, 5, 6, 10, JBOD	Power consumption (typical)	63.3 W
Hot-swap drive bays	✓	Fan voltage	12 V
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Weight & dimensions	
Storage drives installed *	✗	Width *	482 mm
Number of storage drives supported *	8	Depth *	534 mm
Installed storage drive type *	✗	Height *	89 mm
Supported storage drive types *	HDD & SSD	Weight	11 kg
		Package weight	19.3 kg
Processor		Packaging content	
Processor manufacturer *	Intel	Quick installation guide	✓
Processor family *	Intel® Celeron®	Processor special features	
Processor model *	J3455	Embedded options available	✓
Processor frequency *	1.5 GHz	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	2.3 GHz	Execute Disable Bit	✓
Processor cores	4	Idle States	✓
Processor threads	4	Intel 64	✓
Processor cache	2 MB	Intel Clear Video Technology	✓
CPU configuration (max)	1	Intel Enhanced Halt State	✓
ECC supported by processor	✗	Intel Identity Protection Technology version	1.00
PCI Express configurations	1x2+2x1, 4x1	Intel Rapid Storage Technology	✗
PCI Express slots version	2.0	Intel Secure Boot	✓
Processor cache type	Smart Cache	Intel Secure Boot Technology version	1.00
Processor code	SR2Z9	Intel Secure Key Technology version	1.00
Processor codename	Apollo Lake	Intel Small Business Advantage (SBA) version	0.00
Processor lithography	14 nm	Intel Smart Connect Technology	✗
Processor operating modes	64-bit	Intel Smart Connect Technology version	0.00
Processor package size	24 x 31 mm	Intel Smart Response Technology version	0.00
Processor socket	BGA 1296		
Stepping	B1		
Tjunction	105 °C		
Thermal Design Power (TDP)	10 W		
On-board graphics card model	Intel® HD Graphics 500		
Maximum internal memory supported by processor	8 GB		
Conflict-Free processor	✓		

Memory		Processor special features	
Internal memory type	DDR3L	Intel Stable Image Platform Program (SIPP)	✗
Maximum RAM supported	8 GB	Intel Stable Image Platform Program (SIPP) version	0.00
Memory slots	2	Intel Trusted Execution Technology	✗
Internal memory *	4 GB	Intel Virtualization Technology (VT-x)	✓
Flash memory	4096 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Network		Intel VT-x with Extended Page Tables (EPT)	✓
Ethernet LAN *	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel® Anti-Theft Technology (Intel® AT)	✗
Wi-Fi	✗	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
DHCP client	✓	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
DHCP server	✓	Intel® High Definition Audio (Intel® HD Audio)	✓
Jumbo frames support	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
iSCSI support	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
Wake-on-LAN ready	✓	Intel® Insider™	✗
Ports & interfaces		Intel® InTru™ 3D Technology	✗
USB port *	✓	Intel® OS Guard	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Intel® Quick Sync Video Technology	✓
HDMI ports quantity	1	Intel® Secure Key	✓
HDMI version	1.4b	Intel® Small Business Advantage (Intel® SBA)	✗
Ethernet LAN (RJ-45) ports *	4	Intel® Smart Response Technology	✗
Graphics		Intel® Turbo Boost Technology	✗
On-board graphics card base frequency	250 MHz	Intel® Wireless Display (Intel® WiDi)	✗
On-board graphics card burst frequency	750 MHz	Maximum number of PCI Express lanes	6
On-board graphics card dynamic frequency (max)	750 MHz	Number of execution units	12
Maximum on-board graphics card memory	8 GB	Thermal Monitoring Technologies	✓
Number of displays supported (on-board graphics)	3	UART	✓
Design		Memory channels supported by processor	Dual
Chassis type *	Rack (2U)	Memory types supported by processor	DDR3L, LPDDR3-SDRAM, LPDDR4-SDRAM
Cooling type *	Active	Operational conditions	
Product colour	Black	Operating temperature (T-T)	0 - 40 °C
Number of fans	2 fan(s)	Operating relative humidity (H-H)	0 - 95%
Fan diameter	7 cm	Other features	
Fan diameter 2	7 cm	Digital Living Network Alliance (DLNA) certified	✓
LED indicators	✓	Processor ARK ID	95594
Performance			
Type *	NAS		
Buzzer	✓		
Multilingual support	✓		
Web-based management	✓		
Security algorithms	256-bit AES, SNMPv3		
Reset button	✓		
On/off switch	✓		
Built-in UPnP AV media server	✓		
Browser supported	Microsoft Internet Explorer 10+, Google Chrome, Apple Safari 7+, Mozilla Firefox		
System log	✓		
Software			
Operating system installed *	QNAP Turbo System		
Operating system version	4.3		



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