



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



Brand : QNAP

Product code: TS-453BU-2G-8TB-GLD

Product name : TS-453BU

8TB (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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