



## QNAP TS-932PX-4G NAS Tower Annapurna Labs Alpine AL-324 4 GB DDR4 60 TB HDD QNAP Turbo System Black

**Brand :** QNAP

**Product code:** TS-932PX-4G/60TB-REDPRO

**Product name :** TS-932PX-4G

- Two 10GbE SFP+ and two 2.5GbE RJ45 network ports empower bandwidth-demanding tasks and accelerate file sharing
  - HBS provides comprehensive backup and data recovery; QuDedup deduplicates the data at the source to optimize storage and bandwidth usage, while reducing backup times
  - Snapshots record your system status, allowing you to protect files and data from accidental deletion and malware attacks
  - Cloud storage gateways realize hybrid cloud applications by working with the cache space reserved on NAS to ensure low-latency data access to the cloud
  - Qtier auto-tiering technology and SSD caching enable constant storage optimization
  - Increase the storage capacity of the TS-932PX with QNAP TR RAID expansion enclosures or TL JBOD
- Alpine AL-324 1.7GHz, 4 GB DDR4, 512 MB, 5x 3.5", 4x 2.5", 2x 2.5G LAN, 2x 10G SFP+, 3x USB 3.2, 182.7x224.6x224.1 mm



| Storage                              |                               | Design                       |                                                                                  |
|--------------------------------------|-------------------------------|------------------------------|----------------------------------------------------------------------------------|
| Supported storage drive interfaces   | Serial ATA III                | Chassis type *               | Tower                                                                            |
| Storage drive sizes supported        | 2.5,3.5"                      | Cooling type *               | Active                                                                           |
| RAID support *                       | ✓                             | Product colour               | Black                                                                            |
| RAID levels                          | 0, 1, 5, 6, 10, 50, 60, JBOD  | Number of fans               | 1 fan(s)                                                                         |
| Online RAID migration                | ✓                             | Fan diameter                 | 14 cm                                                                            |
| Online RAID expansion                | ✓                             | LED indicators               | HDD, LAN, SSD, Status, USB                                                       |
| RAID rebuild                         | ✓                             | Cable lock slot              | ✓                                                                                |
| Hot-swap drive bays                  | ✓                             | Cable lock slot type         | Kensington                                                                       |
| Supported file systems               | FAT32, HFS+, NTFS, ext3, ext4 | Performance                  |                                                                                  |
| Storage drives installed *           | ✓                             | Type *                       | NAS                                                                              |
| Total installed storage capacity *   | 60 TB                         | Device class *               | Small & Medium Business                                                          |
| Number of storage drives supported * | 9                             | Backup function *            | ✓                                                                                |
| Installed storage drive type *       | HDD                           | Backup features              | Cloud, iSCSI LUN                                                                 |
| Supported storage drive types *      | HDD & SSD                     | Buzzer                       | ✓                                                                                |
| Bad block scan                       | ✓                             | Multilingual support         | ✓                                                                                |
| Disk roaming                         | ✓                             | Snapshot                     | ✓                                                                                |
| Processor                            |                               | Web-based management         | ✓                                                                                |
| Processor manufacturer *             | Annapurna Labs                | Security algorithms          | 256-bit AES, FIPS 140-2, HTTPS, SNMPv2, SNMPv3, SSH, SSL/TLS                     |
| Processor family *                   | Annapurna Labs                | Access Control List (ACL)    | ✓                                                                                |
| Processor model *                    | Alpine AL-324                 | Reset button                 | ✓                                                                                |
| Processor frequency *                | 1.7 GHz                       | On/off switch                | ✓                                                                                |
| Processor architecture               | ARM Cortex-A57                | Built-in FTP server          | ✓                                                                                |
| Memory                               |                               | Browser supported            | Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox |
| Internal memory *                    | 4 GB                          | System log                   | ✓                                                                                |
| Internal memory type                 | DDR4                          | Hot spare                    | ✓                                                                                |
| Maximum RAM supported                | 16 GB                         | S.M.A.R.T. support           | ✓                                                                                |
| Memory slots                         | 1                             | Share folder                 | CIFS/SMB                                                                         |
| Memory form factor                   | SO-DIMM                       | USB copy function            | ✓                                                                                |
| Flash memory                         | 512 MB                        | Software                     |                                                                                  |
| Network                              |                               | Operating system installed * | QNAP Turbo System                                                                |
| Ethernet LAN *                       | ✓                             | Operating system version     | 4.4.2                                                                            |
| Ethernet LAN data rates              | 100,1000,2500,10000 Mbit/s    |                              |                                                                                  |

| Network                                         |                                     | Software                            |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet LAN data rate supported (max)          | 10000 Mbit/s                        | Windows operating systems supported | Windows 10, Windows 7, Windows 8                                                                                                                      |
| DHCP client                                     | ✓                                   | Linux operating systems supported   | ✓                                                                                                                                                     |
| DHCP server                                     | ✓                                   | Mac operating systems supported     | Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.12 Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.15 Catalina |
| Jumbo frames support                            | ✓                                   |                                     |                                                                                                                                                       |
| iSCSI support                                   | ✓                                   |                                     |                                                                                                                                                       |
| Wake-on-LAN ready                               | ✓                                   | Server operating systems supported  | Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019                                         |
| Supported network protocols                     | FTP, SFTP, TFTP, ec, OpenVPN, QBelt |                                     |                                                                                                                                                       |
| Link aggregation                                | ✓                                   |                                     |                                                                                                                                                       |
| Load balancing system                           | ✓                                   | Power                               |                                                                                                                                                       |
| Dynamic DNS (DDNS)                              | ✓                                   | Power supply location               | External                                                                                                                                              |
| WLAN adapter supported                          | ✓                                   | Power supply unit (PSU) capacity    | 120 W                                                                                                                                                 |
| Ports & interfaces                              |                                     | Number of power supply units        | 1                                                                                                                                                     |
| USB port *                                      | ✓                                   | AC input voltage                    | 100 - 240 V                                                                                                                                           |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 3                                   | Fan voltage                         | 12 V                                                                                                                                                  |
| Fiber ports quantity                            | 2                                   | Weight & dimensions                 |                                                                                                                                                       |
| Fiber optic connector                           | SFP+                                | Width *                             | 224.6 mm                                                                                                                                              |
| Ethernet LAN (RJ-45) ports *                    | 2                                   | Depth *                             | 224.1 mm                                                                                                                                              |
|                                                 |                                     | Height *                            | 182.7 mm                                                                                                                                              |
|                                                 |                                     | Packaging content                   |                                                                                                                                                       |
|                                                 |                                     | External power adapter              | ✓                                                                                                                                                     |
|                                                 |                                     | Operational conditions              |                                                                                                                                                       |
|                                                 |                                     | Operating temperature (T-T)         | 0 - 40 °C                                                                                                                                             |
|                                                 |                                     | Operating relative humidity (H-H)   | 5 - 95%                                                                                                                                               |

## Catalog Object Cloud



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