



## QNAP TS-832PXU-4G NAS Rack (2U) Annapurna Labs AL324 4 GB DDR4 16 TB HDD QNAP Turbo System Aluminium, Black



**Brand :** QNAP

**Product code:** TS-832PXU-4G/16TB-GOLD

**Product name :** TS-832PXU-4G

- Two 10GbE SFP+ and two 2.5GbE RJ45 network ports accelerate file sharing
- HBS (Hybrid Backup Sync) backs up and syncs data to other NAS, servers and cloud storage for comprehensive disaster recovery planning
- Boxafe provides an extra layer of protection by backing up emails, cloud drives, contacts, and calendars of Google™ G Suite and Microsoft 365®
- Snapshots fully record system status and data, allowing you to protect files and data from accidental deletion and malware attacks
- Expand the application potential of the TS-832PXU-RP by installing a compatible PCIe card
- Increase the storage capacity of the TS-832PXU-RP with QNAP TR RAID expansion enclosures or TL JBOD

AnnapurnaLabs Alpine AL324, ARM Cortex-A57, 2U, 4 GB UDIMM DDR4, 2x 10GbE SFP+, 4x USB 3.2 Gen

1

| Storage                              |                                      | Design                               |                                                                                  |
|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------------------------------------------------------------|
| Storage drive capacity *             | 2 TB                                 | Fan diameter                         | 7 cm                                                                             |
| Supported storage drive interfaces   | Serial ATA II, Serial ATA III        | LED indicators                       | HDD, LAN, Status                                                                 |
| Storage drive sizes supported        | 2.5,3.5"                             | <b>Performance</b>                   |                                                                                  |
| RAID support *                       | ✓                                    | Type *                               | NAS                                                                              |
| RAID levels                          | 0, 1, 5, 6, 10, 50, 60, JBOD         | Device class *                       | Small & Medium Business                                                          |
| Online RAID migration                | ✓                                    | Backup function *                    | ✓                                                                                |
| Online RAID expansion                | ✓                                    | Backup features                      | Cloud, iSCSI LUN                                                                 |
| RAID rebuild                         | ✓                                    | Buzzer                               | ✓                                                                                |
| Hot-swap drive bays                  | ✓                                    | Noise level                          | 24.9 dB                                                                          |
| Supported file systems               | FAT32, HFS+, HPFS, exFAT, ext3, ext4 | Third-party support                  | ✓                                                                                |
| Storage drives installed *           | ✓                                    | Snapshot                             | ✓                                                                                |
| Total installed storage capacity *   | 16 TB                                | Management protocols                 | SNMP                                                                             |
| Number of storage drives installed * | 8                                    | Web-based management                 | ✓                                                                                |
| Number of storage drives supported * | 8                                    | Share folder access right management | ✓                                                                                |
| Installed storage drive type *       | HDD                                  | Security algorithms                  | 256-bit AES, FIPS 140-2, HTTPS, SNMP, SSH                                        |
| Supported storage drive types *      | HDD & SSD                            | Access Control List (ACL)            | ✓                                                                                |
| Bad block scan                       | ✓                                    | Reset button                         | ✓                                                                                |
| <b>Processor</b>                     |                                      | On/off switch                        | ✓                                                                                |
| Processor manufacturer *             | Annapurna Labs                       | Built-in BitTorrent client           | ✓                                                                                |
| Processor family *                   | Annapurna Labs                       | Built-in UPnP AV media server        | ✓                                                                                |
| Processor model *                    | AL324                                | Built-in FTP server                  | ✓                                                                                |
| Processor frequency *                | 1.7 GHz                              | Browser supported                    | Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox |
| Processor cores                      | 4                                    |                                      |                                                                                  |
| <b>Memory</b>                        |                                      | System log                           | ✓                                                                                |
| Internal memory *                    | 4 GB                                 | Hot spare                            | ✓                                                                                |
| Internal memory type                 | DDR4                                 | Disk scan                            | ✓                                                                                |
| Maximum RAM supported                | 16 GB                                | S.M.A.R.T. support                   | ✓                                                                                |
| Memory slots                         | 1                                    | Universal Plug and Play (UPnP)       | ✓                                                                                |
| Memory form factor                   | UDIMM                                | <b>Software</b>                      |                                                                                  |
| Flash memory                         | 512 MB                               | Operating system installed *         | QNAP Turbo System                                                                |
| <b>Network</b>                       |                                      | Operating system version             | 4.4.3                                                                            |
| Ethernet LAN *                       | ✓                                    |                                      |                                                                                  |

| Network                                         |                            | Software                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|----------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet LAN data rates                         | 100,1000,2500,10000 Mbit/s | 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 10 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 |
| DHCP client                                     | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DHCP server                                     | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Jumbo frames support                            | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| iSCSI support                                   | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Wake-on-LAN ready                               | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Link aggregation                                | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Load balancing system                           | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dynamic DNS (DDNS)                              | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| WLAN adapter supported                          | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ports & interfaces                              |                            | Linux operating systems supported   | CentOS 7.0, Solaris 10 U4, Solaris 10 U5, Ubuntu 14.04, openSUSE 12.1, openSUSE 12.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| USB port *                                      | ✓                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 4                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Fiber ports quantity                            | 2                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Fiber optic connector                           | SFP+                       |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ethernet LAN (RJ-45) ports *                    | 2                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Design                                          |                            | Mac operating systems supported     | Mac OS X 10.1 Puma, 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, Mac OS X 10.15.3 Catalina                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Chassis type *                                  | Rack (2U)                  |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cooling type *                                  | Active                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product colour                                  | Aluminium, Black           |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of fans                                  | 2 fan(s)                   | Server operating systems supported  | Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Power                                           |                            |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power supply location                           | Built-in                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power supply unit (PSU) capacity                | 250 W                      |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of power supply units                    | 1                          |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power consumption (typical)                     | 56.412 W                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AC input voltage                                | 100 - 240 V                |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Fan voltage                                     | 12 V                       |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Weight & dimensions                             |                            |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Width *                                         | 482 mm                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Depth *                                         | 534 mm                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Height *                                        | 89 mm                      |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Packaging content                               |                            |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cables included                                 | AC, LAN (RJ-45)            |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of screws                                | 56                         |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operational conditions                          |                            |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating temperature (T-T)                     | 0 - 40 °C                  |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating relative humidity (H-H)               | 5 - 95%                    |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage temperature (T-T)                       | -20 - 70 °C                |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Catalog Object Cloud



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