QNAP

Easily Develop Entrepreneurial Ideas at Home

TS-231P2 / TS-431P2

Expand to up to 8GB DDR3 RAM

TS-431P2

1.7 GHz 4 cores

powered by **annapurnalabs** an amazon company
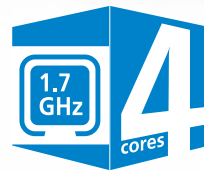
- Upgraded Annapurna Labs AL-314 quad-core 1.7 GHz processor for better user experience
- Use Qsync Central Station to sync filles across computers and mobile devices
- LXC + Docker® Dual Virtualization Technology on ARM-based NAS
- Full backup to external devices, remote servers, or cloud storage
- Stream to multiple media devices simultaneously and enjoy high-quality streaming with DLNA, Apple TV, and Chromecast
- TS-x31P2 can expand storage by up to 16 drives with two QNAP UX-500P/800P expansion enclosures

| SATA 6Gb/s | RAM 1GB/4GB DDR3 Max. 8GB | USB 3.0 x 3 | Container Station | Encryption Engine |

TS-231P2-1G
TS-231P2-4G

TS-431P2-1G
TS-431P2-4G

Introducing TS-x31P2 - Cost-effective NAS for Home Startup Projects

Equipped with ARM® Cortex®-A15 core architecture quad-core 1.7 GHz processor and memory expandable to 8GB, TS-x31P2 is the most cost-effective SOHO/HOME NAS with enhanced hardware performance to realize home startup business ideas. TS-x31P2's simple yet practical hardware design and intuitive QTS operating system makes it possible for you to enjoy the convenience of NAS at no extra cost. With QNAP's exclusive mail agent, contact manager and other applications, TS-x31P2 can easily help you connect your home, life and work with a single device, whether you are at home as a beginner or in a small studio.

Quad-core processor delivers high performance

Newly released with enhanced processing power, the TS-x31P2 is equipped with AnnapurnaLabs, an Amazon company Alpine AL-314 quad-core 1.7 GHz Cortex-A15 processor and 1GB/4GB DDR3 RAM. In addition to being the first entry-level NAS on the market with a quad-core processor, the option to expand memory to 8GB makes TS-x31P2 the ideal choice for home, workgroups and SOHO users, providing outstanding performance and additional resource for containerized applications. Data is also protected by TS-x31P2's enhanced encryption and decryption engine with AES 256-bit full NAS volume encryption.

x1 SODIMM
- DDR3 RAM upgradable to 8GB
- Full-text search engine with Qsirch
- Automatic file organization with Qfiling
- Integrates LXC and Docker® with Container Station

x2 GbE
- Dual IP
- Port Trunking
- Link Aggregation
- Stronger data transmission capacity

x3 USB 3.0
- Printer
- External storage
- SD card reader
- Wi-Fi adapter
- And more USB applications
- UPS

At least 2GB of memory is required to use Qsirch and Qfiling.

Qcontactz

Qcontactz helps you centrally store and manage contact information for colleagues, business partners, family, and friends. Other features include: importing from Google® accounts, importing/exporting CSV or vCARD 3.0 files, automatic identification of frequently-used contacts, encryption for sensitive/confidential contact information, smart searching, and more.

QmailAgent

QmailAgent is an online email client that helps you manage multiple email accounts, allowing you to access all of your emails and to easily switch between different accounts. It provides excellent functionality for composing, reading and organizing emails. You can even attach files, hotos and documents from the TS-x31P2 when composing emails.

Qsync Central Station

Qsync turns your TS-x31P2 into a safe, high-capacity data center for file synchronization. Any file uploaded to the TS-x31P2 will be made available for all linked devices, such as computers, laptops or mobile devices. Qsync is especially useful for frequent travelers to manage files and always have the most up-to-date files on different devices.

Qfiling

Qfiling helps automate file organization for sorting files spread through multiple folders. Users can categorize files and determine filing conditions; and schedule filing tasks to be carried out periodically. The "Recipe" feature allows users to save frequently-used filing conditions as an "exclusive recipe", then the next Qfiling task can be run with just one click using the recipe.

Qsirch

TS-x31P2 supports Qsirch which allows you to search through .eml files stored on the NAS and to use customized search criteria such as date, size, sender and recipient. The Qsirch Helper extension (for Google Chrome™ and Mozilla Firefox®) can also be used to search for files on your NAS when using Google Search™.

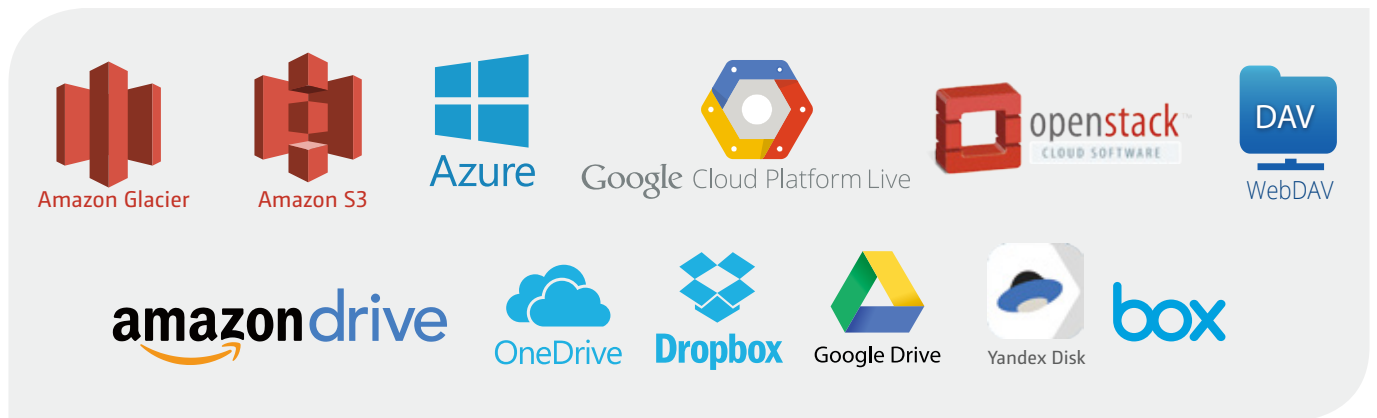# Rapidly deploy IoT apps with Container Station

Container Station exclusively integrates LXC and Docker® lightweight virtualization technologies, allowing you to operate multiple isolated Linux® systems on TS-x31P2 and download apps from the built-in Docker Hub® Registry. It can easily build a secure private cloud to store IoT data and to quickly create diverse IoT applications.

The minimum memory requirement to run Container Station is 1GB. 2GB of memory is recommended for better performance.
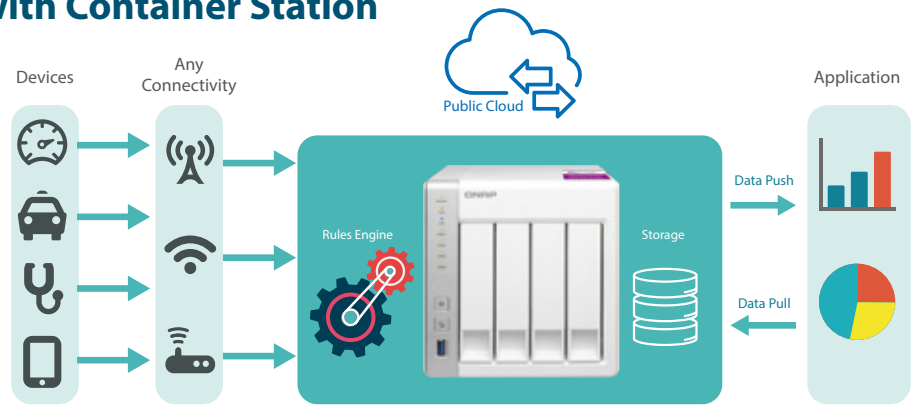
Centralize backup, restoration and synchronization with Hybrid Backup Sync

Hybrid Backup Sync consolidates backup, restoration and synchronization functions (using RTRR, rsync, FTP, CIFS/SMB) into a single app for easily transferring data to local, remote and cloud storage spaces as a comprehensive data storage and disaster recovery plan. Hybrid Backup Sync supports multi-version backup, flexible job scheduling, file compression to save storage space, and more.


Amazon Glacier Amazon S3 Azure Google Cloud Platform Live OPENSTACK CLOUD SOFTWARE DAV WebDAV

amazon drive OneDrive Dropbox Google Drive Yandex Disk box

Surveillance Station

Surveillance Station is a professional network surveillance Video Management System (VMS) that offers a user-friendly management interface, over 3,000 compatible IP camera models, and expandable IP camera channel licenses. It supports real-time monitoring, video & audio recording and playback with a wide range of customizable settings.

Channel Licenses
FREE:2
Max. 25

App Center

The built-in App Center provides various install-on-demand apps developed by QNAP and third-party developers, including tools for backup/sync, business, content management, communications, download, entertainment, and much more.
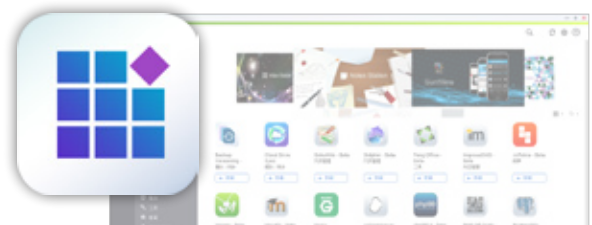
Access your NAS from mobile devices

Qfile
Use Qfile to remotely manage the files on your NAS, upload and download files, stream videos/music, share documents and synchronize files with mobile devices.

Qget
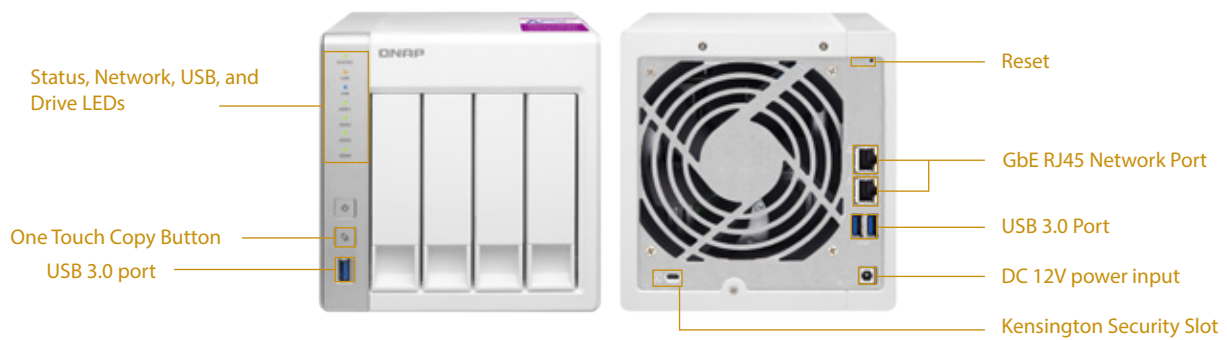Find web resources, set new download tasks to the NAS, and manage your download tasks.

Qnotes
Create and share your beautifully illustrated digital notes.

Vmobile
Remotely manage the cameras connected to Surveillance Station, and play recorded videos.

Status, Network, USB, and Drive LEDs

One Touch Copy Button

USB 3.0 port

Reset

GbE RJ45 Network Port

USB 3.0 Port

DC 12V power input

Kensington Security Slot

Hardware Specifications

Ordering SKU	TS-231P2-1G	TS-231P2-4G	TS-431P2-1G	TS-431P2-4G
CPU	Annapurna Labs Alpine AL-314 Quad-core 1.7 GHz processor			
Memory	1GB/4GB DDR3 RAM			
RAM Slot	1 x SODIMM (Max. 8GB)			
Flash Memory	512MB NAND flash			
Drive Numbers	2		4	
Drive Types	SATA 6Gb/s, 3Gb/s HDD or SSD; Hot-swappable			
USB	3 x USB 3.0 ports (Front: 1, Rear: 2)			
LAN Ports	2 x GbE RJ45			
LED Indicators	System Status, HDD, USB, LAN			
Button	Power, Reset, USB One Touch Copy			
Alarm Buzzer	System warning			
Form Factor	Tower			
Dimensions (H) x (W) x (D)	169 x 102 x 219 mm 6.65 x 4.02 x 8.62 inch		169 x 160 x 219 mm 6.65 x 6.3 x 8.62 inch	
Weight	Net Weight:1.28kg (2.82 lbs) Gross Weight:2.32kg (5.11 lbs)		Net Weight:3 kg (6.61 lbs) Gross Weight:4.3 kg (9.48 lbs)	
Temperature	0 - 40˚C / 32~104°F			
Relative Humidity	5 ~ 95% RH non-condensing; wet bulb:27˚C			
Power	AC adapter, 65W, 100 - 240V		AC adapter, 90W, 100 - 240V	
Sound Level	In operation:19.2 dB (A)		In operation:19.5 dB (A)	
Security Design	K-Lock Security Slot			
Fan	1 x 7 cm Silent fan (12V DC)		1 x 12 cm Silent fan (12V DC)	
Optional QNAP Accessories	2 x UX-500P/800P,DDR3 2GB/4GB/8GB memory			

Software Specifications

Supported RAID Types	Single disk, RAID 0/1/5/6/10/5 + spare / 6 + spare
Storage Manager	Flexible Volume/LUN; online RAID capacity expansion and configuration migration
Supported Client Systems	Windows 7/8/8.1/10, Windows Server 2012 R2, Apple Mac OS X 10.7+, Linux & UNIX
Internal File System	EXT4
External File System	EXT4, EXT3, NTFS, HFS+, FAT32
Supported Protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC
File Sharing	Maximum number of users:4096; Maximum number of user groups:512; Maximum shared folders:512; Maximum simultaneous connections:700
Video Surveillance	Including 2 free camera support, You can purchase additional license to expand to a maximum of 25 channels (http://license.qnap.com)
Other Features	File Station, Photo Station, Music Station, Video Station, Download Station, Qsync, Notes Station, FTP Server, Print Server, VPN Server, VPN Client, Antivirus Protection, Qsirch, Qfiling, Container Station
Streaming Server	DLNA Server, Airplay, Chromecast, iTunes Server
Remote Access	myQNAPcloud

Package contents

* NAS
* Ethernet cable
* Quick Installation Guide
* Drive screw pack
* AC adapter
* Power cord

All specifications are subject to change without notice.
For more information, please go to www.qnap.com

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