QNAP

3-bay NAS with 3 built-in M.2 SSD SATA ports, supporting RAID 5 data protection

# Introducing the T5-332X



TS-332X-2G / TS-332X-4G

# **New 3-bay NAS joins AL family**





# Supports M.2 SATA SSD

\*M.2 SSD sold separately



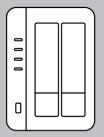




# Cost effectively secures data with RAID5



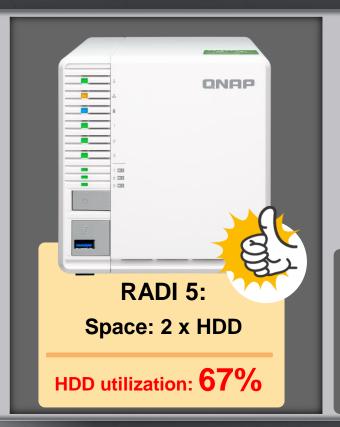
2-Bay NAS



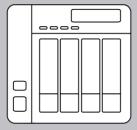
**RAID 1:** 

Space: 1 x HDD

**HDD utilization: 50%** 



4-Bay NAS

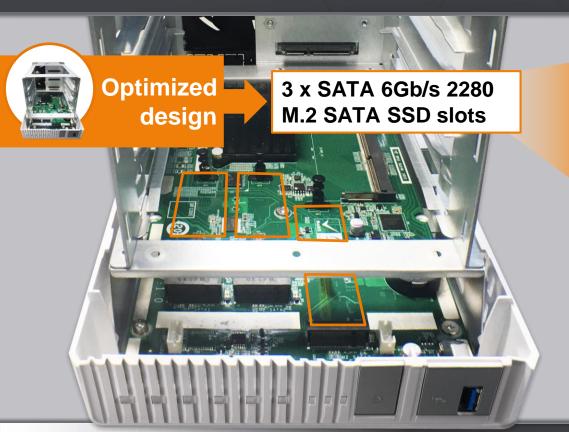


RAID 5:

Space: 3 x HDD

**Budget concern** 

# Compact NAS with 3 x M.2 SATA slots





# User upgradable DDR4 RAM

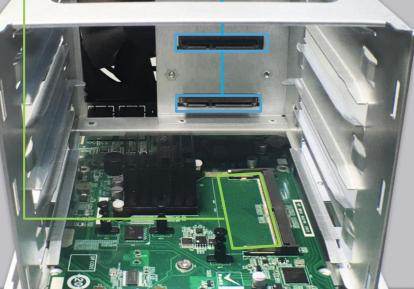


DDR4 SO-DIMM, Up to 16GB DDR4



3 x SATA 6Gb/s HDD/SSD ports







# SSD support for cache acceleration



### Scenario 1

1 x SSD for cache 2 x HDD, RAID 1

Better performance Data protection



One 2.5" tray base is bundlled

### Scenario 2

3 x HDD, RAID 5

Big storage Data protection

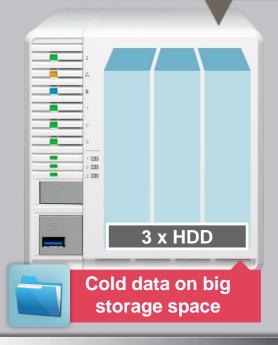




# Both performance and capacity in hand



### RAID 5 X RAID 5







Use **Qtier** for hot data tiered storage





# Quad-core 64-bit Cortex-A57 CPU

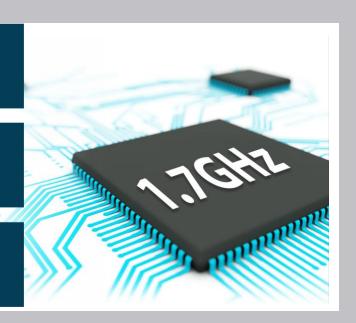




**AL324 4-core 64-bit 1.7 GHz CPU** 

Hardware Encryption Acceleration Engine

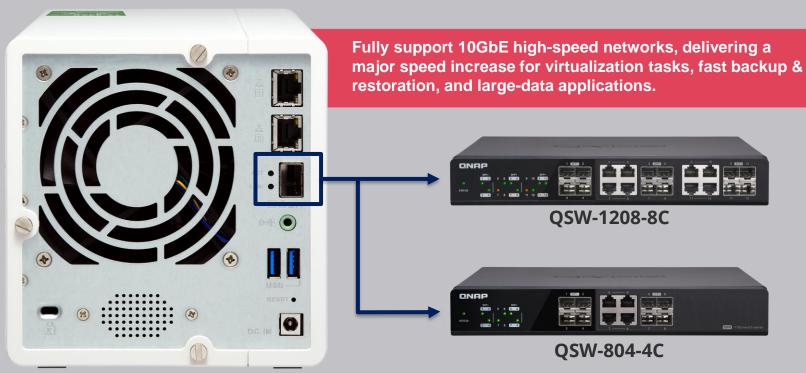
Up to 16 GB DDR4 SO-DIMM





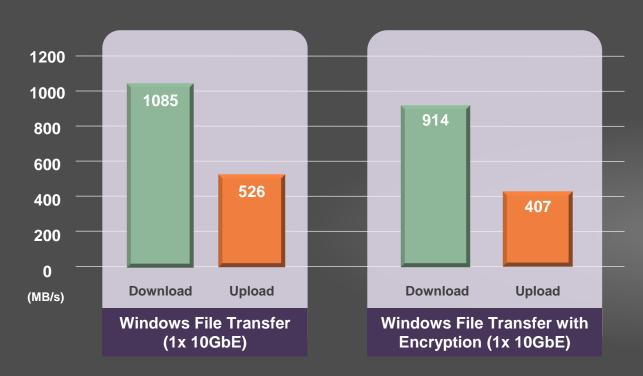
# **Built-in single 10GbE SFP+ port**





# High speed Transfer





Test environment:
NAS: TS-332X
OS: QTS 4.3.4
RAID Group: RAID 5: 3 x IN

RAID Group: RAID 5; 3 x INTEL SSDSC2BB240G4 240GB \*3; Plient PC: Windows 10, intel i7-5820K @3.3GHZ, 32GB RAM

\*Tested in QNAP Labs. Figures may vary by environment.



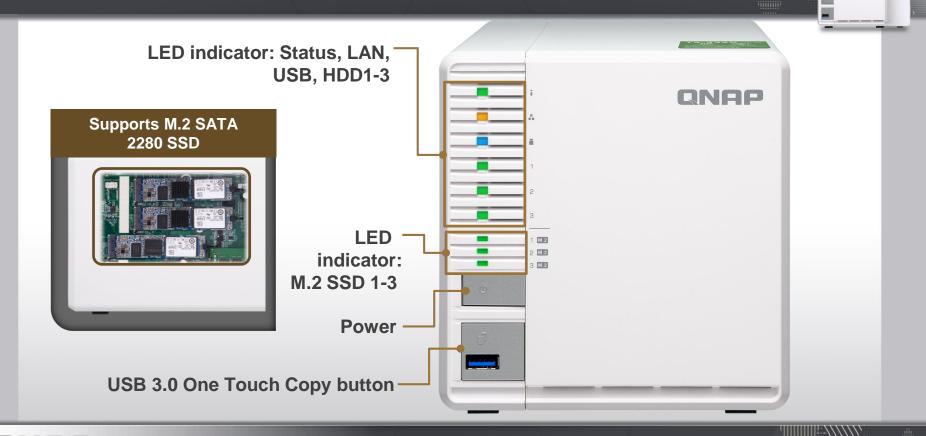


# Lightning fast transfers



# DEMO

## Front view



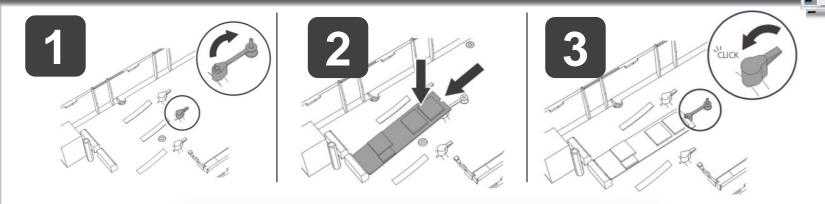


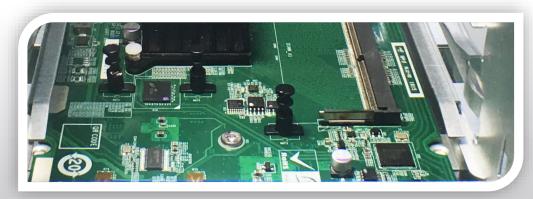
# Rear view





# **Tool less M.2 SSD fast installation**



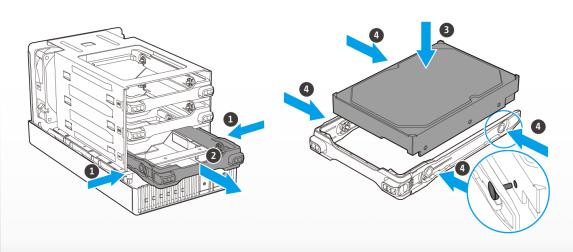


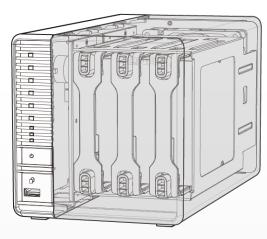
# Hot swappable and invisible slots



Tool less installation

Prevent HDD mishandling Anti-theft





# Elegant and energy saving



Effective cooling design





ARM Cortex-A57 Energy saving architecture

Standby: 18.56 W Operating: 26.22 W





# Install M.2 and upgrade RAM





# Data Backup

Snapshot provides a complete data backup solution



# A complete backup solution



### Data backup is the most effective way against ransomware

### macOS



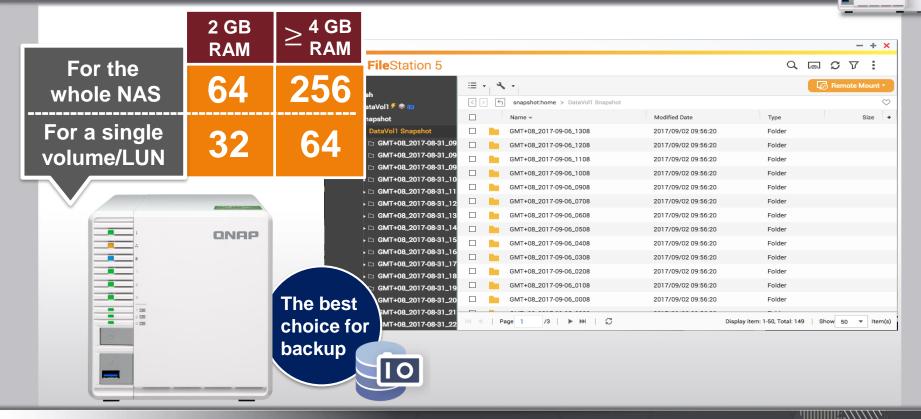
### **Windows**



NetBak Replicator CNAP

Real-time or scheduled back up to the TS-332X easily.

# Protect your backup with QNAP Snapshot



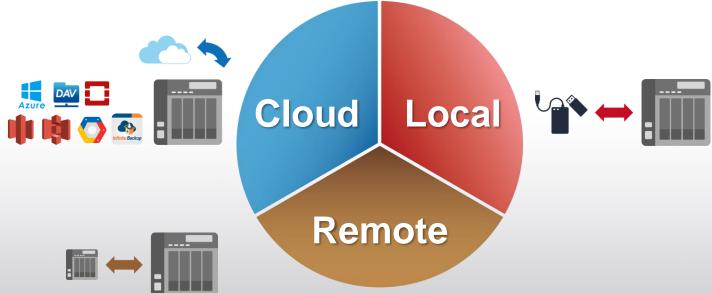


# Multi-layer protection for the backup

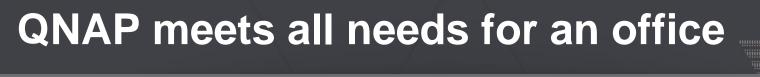




## **Hybrid Backup Sync**

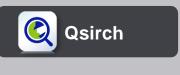
















Store and backup

**File Digitization** 

Search

**Archive** 



With OCR Converter, Qsirch can search for image context.







# **Qsirch 334 core competencies**





3

### Search tools

- Advanced search for complex keyword search
- Category bar for quickly finding every kinds of files
- ◆ 35+ powerful filter conditions

3

### Search aids

- ◆ Tags for every search criteria
- Highlight keywords for viewing the search result clearly
- Easy steps from preview to sharing

4

### **Search channels**

- Web
- Browser extension
- Mobile app
- Mac Finder \*

<sup>\*</sup> This feature is going to be supported from QTS4.3.5



# **Qfiling 2.0 core competencies**





### **Flexible**

Create your Qfiling rules in 3 steps



### **Efficient**

Scheduling for auto filing



### **Total control**

With system logs, filing status is easily accessible



### **Fast**

With recipes, tasks are done with one click



# **Note Station 3**

A convenient Notepad on your Private Cloud



## What is Notes Station 3?



Notes Station 3 is a note taking app on private cloud with powerful functions for collaboration. It's like having collaborative editing of Google Docs and the note-taking of Evernote all at the same time.



# Efficiently plan your self-guided tour with Notes Station 3



——— Four major functions, get it once! ———

**Notes Taking** 

Notes Management

02 Notes Sharing

**Output**Security and Backup

# Efficiently plan your self-guided tour with Notes Station 3





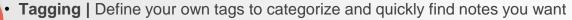
- Notes taking | Notes Station 3 helps you create a perfect journey plan
- Image Editor | Mark on the map to make attraction locations visible at a glance
- Snapshot management | Don't worry about messing up the note, snapshots help you restore to original version

Notes Sharing



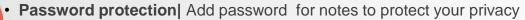
- Share | Too difficult to plan alone? Start planning journey with friends together
- Collaboration | Multiple users co-edit in real time, work together to increase your work efficiency
- Share management | Easily manage many shared notes at one time

Notes Management



• Important notes | Add your schedule as favorite to quickly access your plan

Security and Backup



Import/Export | Export your plan and easily carry around in journey





## **QVR Pro surveillance solution**





5,000+ compatible IP cameras

8 free IP camera channels

16 max. IP camera channels

QUSBCam2 record from USB webcams



# TS-332X provides you...





### M.2 supported RAID5 NAS

- Improve the HDD usage
- Use SSD for cache or M.2 for auto tiering



### **VJBOD** and surveillance

- support VJBOD to arrange available capacity efficiently
- support QVR Pro



### **Built in 10GbE SFP+**

- High speed transfer enhances the productivity
- Building 10GbE workflow with QSW by very low cost



### **Data safety**

- Snapshot protection
- Time Machine and Netback Replicator backup solution
- Cloud service





