



Introducing the IoT-oriented TS-x63XU :

Powered by an AMD quad-core processor with
10GBASE-T connectivity

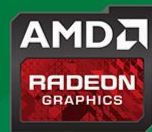


Live Broadcast Date:

MAY 3, 2018

Live Broadcast Date:

5:30 p.m. (UTC+8)



Rackmount NAS with single & redundant power

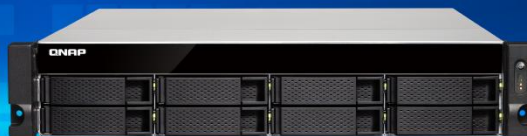
TS-x63XU

Newly upgraded to 10GBASE-T with Multi-Gigabit

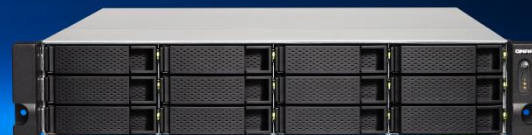
AMD GX-420MC 64bit quad-core 2.0 GHz



TS-463XU-4G / TS-463XU-RP-4G



TS-863XU-4G / TS-863XU-RP-4G



TS-1263XU-4G / TS-1263XU-RP-4G

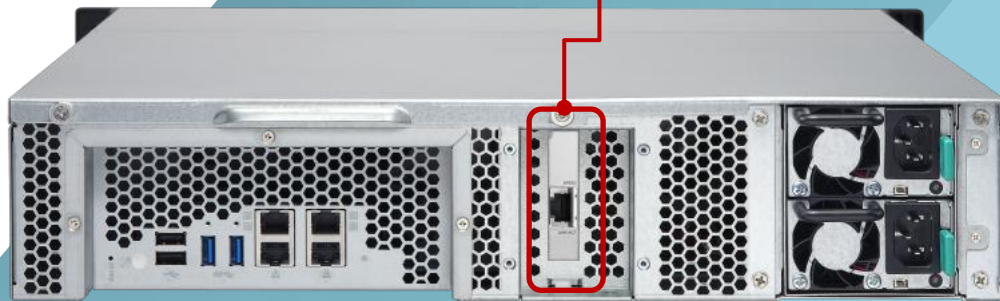
Upgraded 10GbE port: 10GBASE-T



TS-x63U-RP

1 x 10GbE SFP+

Offers the same 10GbE performance,
but adds Multi-Gigabit support



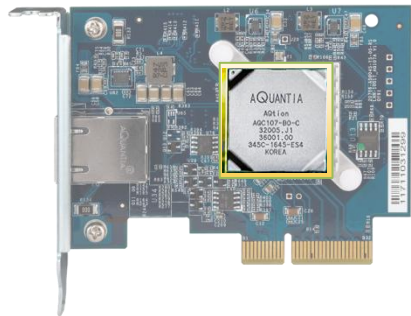
TS-x63XU-RP

1 x 10GbE 10GBASE-T

Multi-Gigabit 10GBASE-T port

Aquantia AQC107 controller

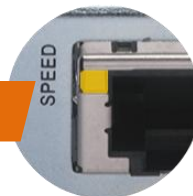
Multiple speeds



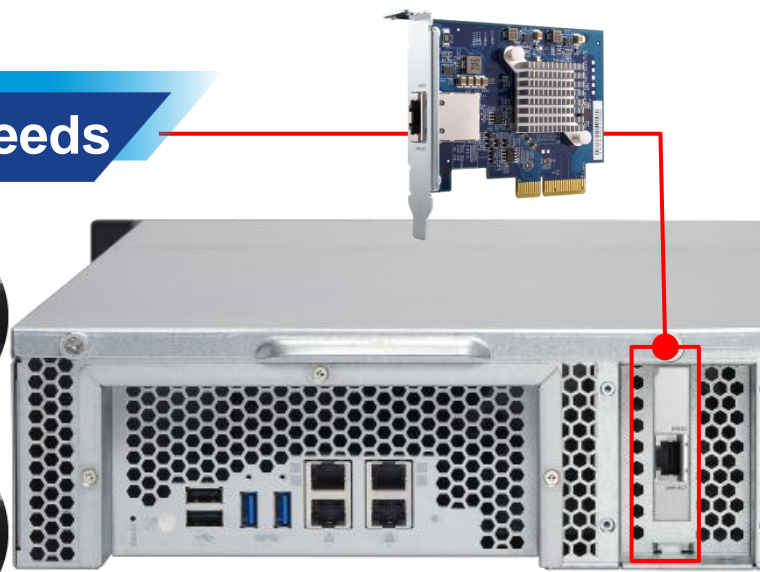
10G



5G/2.5G/1G/100M



Disconnected



Multi-Gig supporting vendors



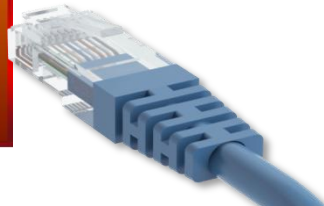
Instantly upgrade to five speeds

	CAT 5e	CAT 6	CAT 6A & CAT 7
100M	✓	✓	✓
1G	✓	✓	✓
2.5G	✓	✓	✓
5G	✓	✓	✓
10G	X	✓(55m)	✓

Supports Multi-Gigabit **NBASE-T**

With QNAP 10G switch, existing RJ45 cables can be used for faster speeds!

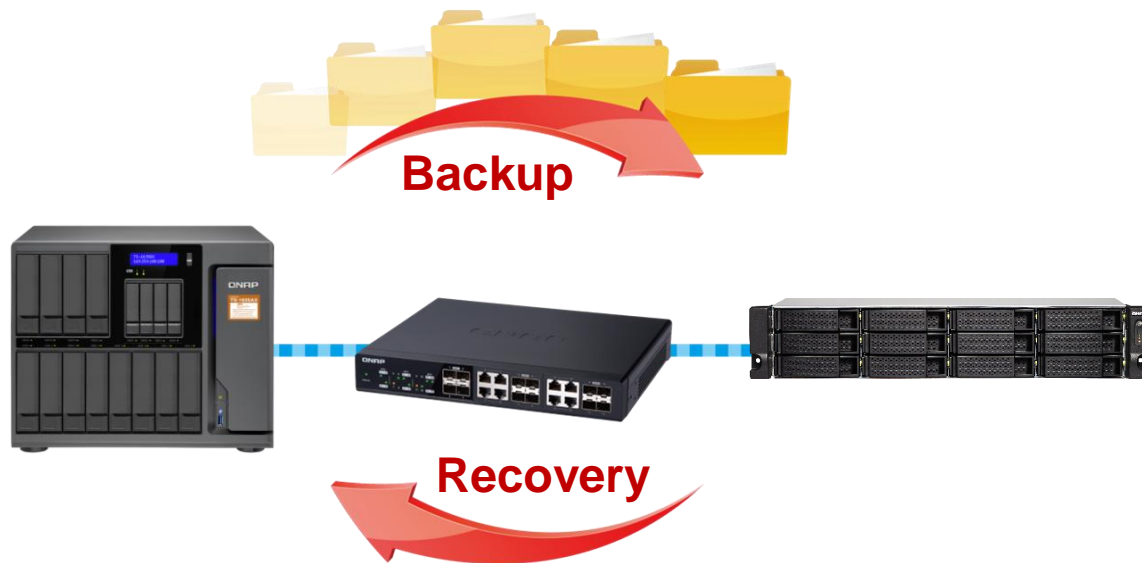
QSW-1208-8C



10GbE for fast data backup & recovery

Economical business disaster recovery solution

- ✓ High-performance backup
- ✓ Real-time and in-time recovery
- ✓ Safeguard confidential and sensitive data



A single portal for backup & recovery

Hybrid Backup Sync



Backup



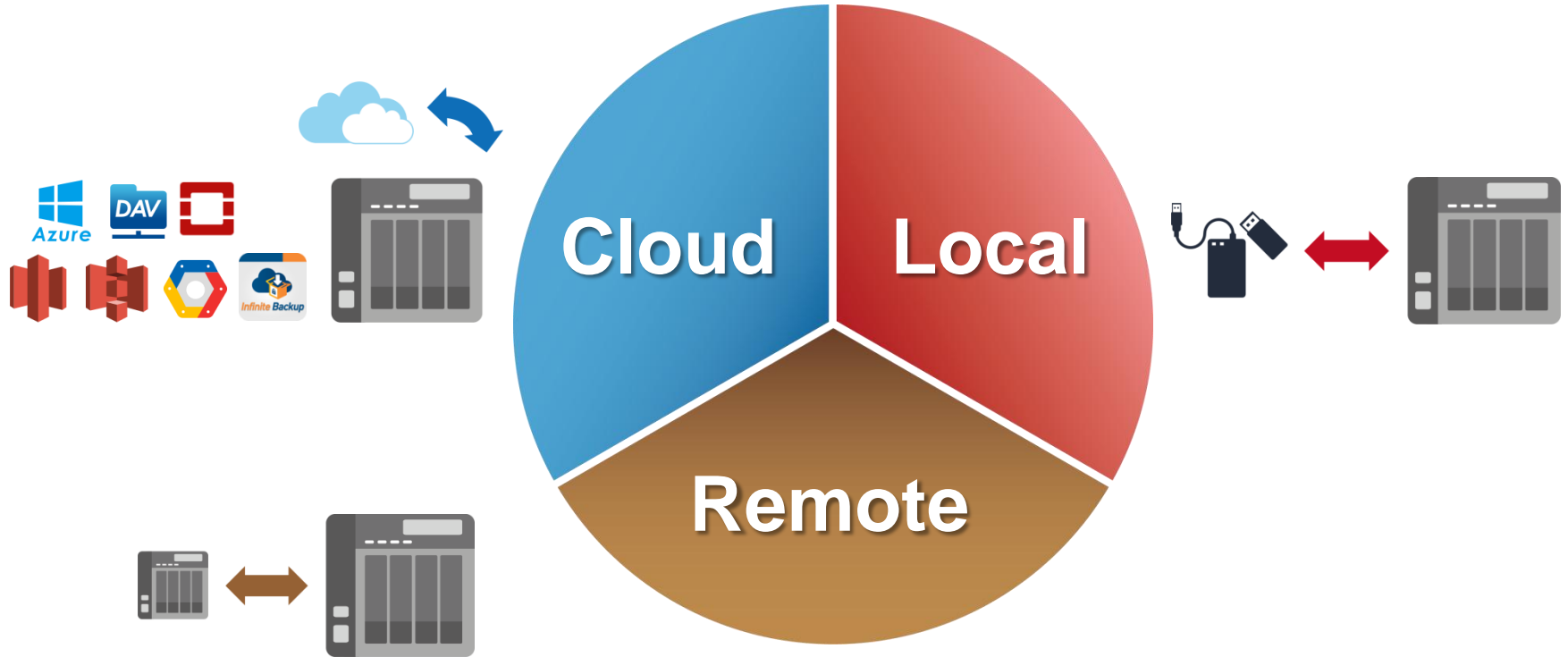
Recovery



Sync



Backup – Hybrid setup



Multi-version backup

■ Simple backup ■ Smart backup



JAN.



APR.



SEP.



DEC.



NOW



Demo: solid 10GbE performance

The TS-1263XU provides 1 x 10GbE 10GBASE-T port

iSCSI

Read

1079 MB/s

Write

602 MB/s

Tested in QNAP Labs. Figures may vary by environment.

1 x 10GbE iSCSI test environment :

NAS : TS-1263XU

OS : QTS 4.3.4

Volume : RAID 5; 12 x Intel SSDSC2BB240G4 SSD

Client PC : Windows 10, Intel Core i7-6700 3.4 GHz, 32GB RAM,
QNAP LAN-10G2T-X550 card, IOMeter 2M

AMD quad-core 2.0 GHz processor



Long-term support

64-bit 4-core 2.0 GHz SoC
AMD GX-420MC processor

- ❖ AES-NI encryption acceleration
- ❖ 2 x SODIMM DDR3L memory up to

16GB
(2 x 8GB)



TS-463XU & TS-463XU-RP

TS-463XU-4G

4GB RAM (1x 4GB)



Single

250W

TS-463XU-RP-4G

4GB RAM (1x 4GB)



Redundant

2 x 250W



4-bay

TS-863XU & TS-863XU-RP

TS-863XU-4G

4GB RAM (1x 4GB)



Single

250W

TS-863XU-RP-4G

4GB RAM (1x 4GB)



Redundant

2 x 250W



8-bay

TS-1263XU & TS-1263XU-RP

TS-1263XU-4G

4GB RAM (1x 4GB)



Single

350W

TS-1263XU-RP-4G

4GB RAM (1x 4GB)



Redundant

2 x 300W



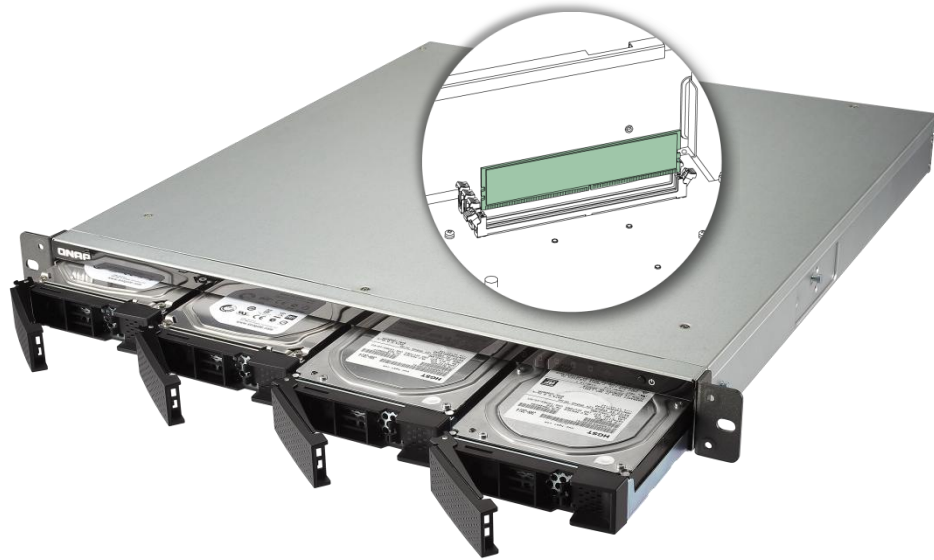
12-bay

Up to 16GB DDR3L memory

2 x DDR3L SODIMM RAM slots

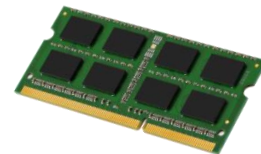
Up to **16GB**

Preinstalled with
1 x 4GB DDR3L SODIMM

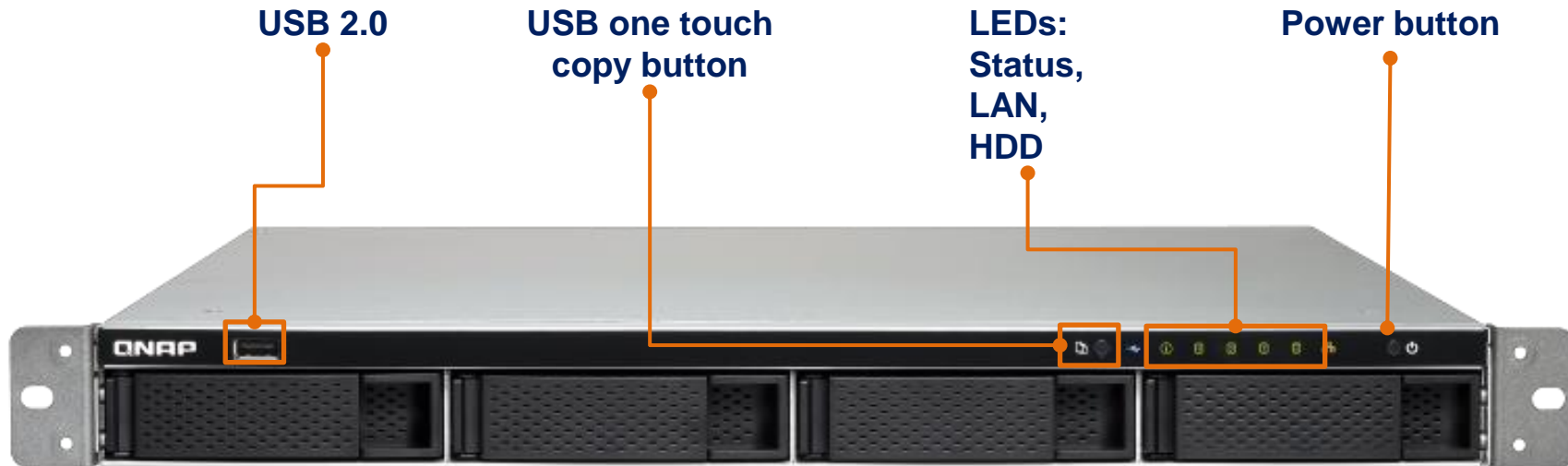


QNAP
optional accessories

4GB, 8GB,
16GB RAM



4-bay front view



8-bay / 12-bay front view



TS-1263XU-4G
TS-1263XU-RP-4G



TS-863XU-4G
TS-863XU-RP-4G

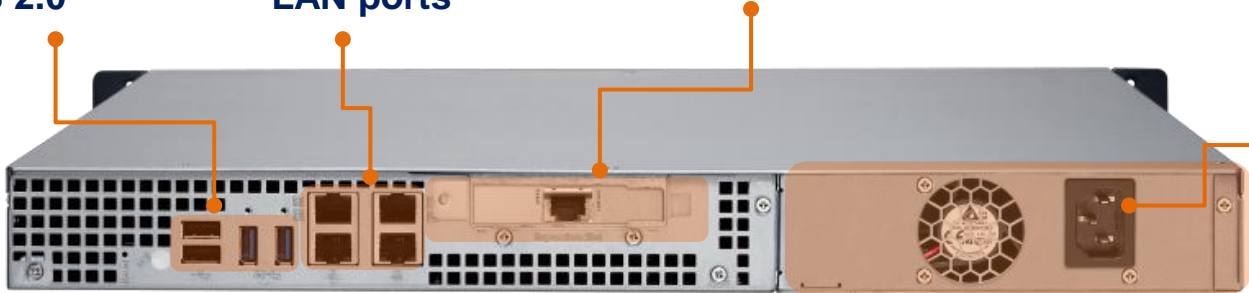
4-bay rear view

2 x USB 3.1 Gen 1
2 x USB 2.0

4 x 1GbE RJ45
LAN ports

2.0 x4 half-height PCIe slot

Single PSU
TS-463XU: 250W



Dual PSU
TS-463XU-RP: 2 x 250W

Reset

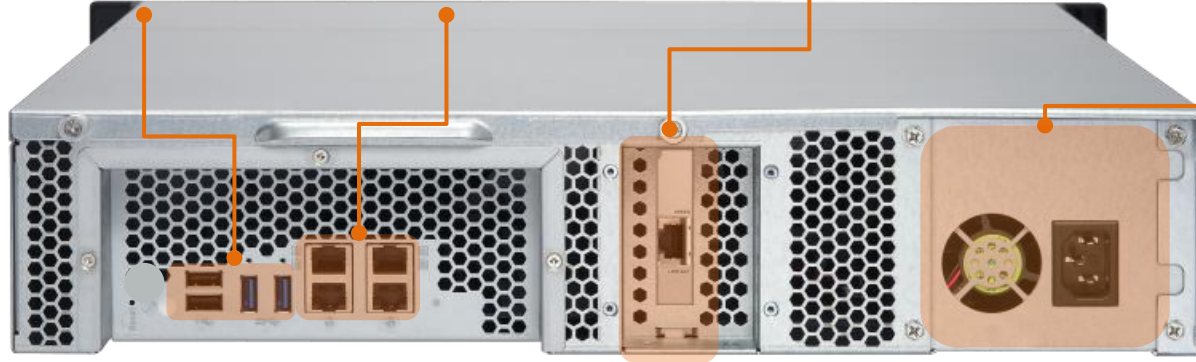


8-/12-bay rear view

2 x USB 3.1 Gen 1
2 x USB 2.0

4 x 1GbE
RJ-45 LAN ports

2.0 x4 half-height PCIe slot



Single PSU
TS-863XU: 250W
TS-1263XU: 350W



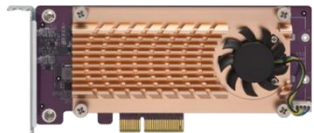
Reset

Dual PSU
TS-863XU-RP: 2 x 250W
TS-1263XU-RP: 2 x 350W

PCIe slot for versatile applications

TS-x63XU has a half-height PCIe 2.0 x4 expansion slot, and the pre-installed 10GBASE-T card can be replaced with many other PCIe cards.

M.2 SSD / 10GbE port



QM2-2S, QM2-2S10G1T
QM2-2P, QM2-2P10G1T
QM2-2S-220A, QM2-2P-244A

2 x GbE LAN



LAN-1G2T-I210

10G SFP+ LAN

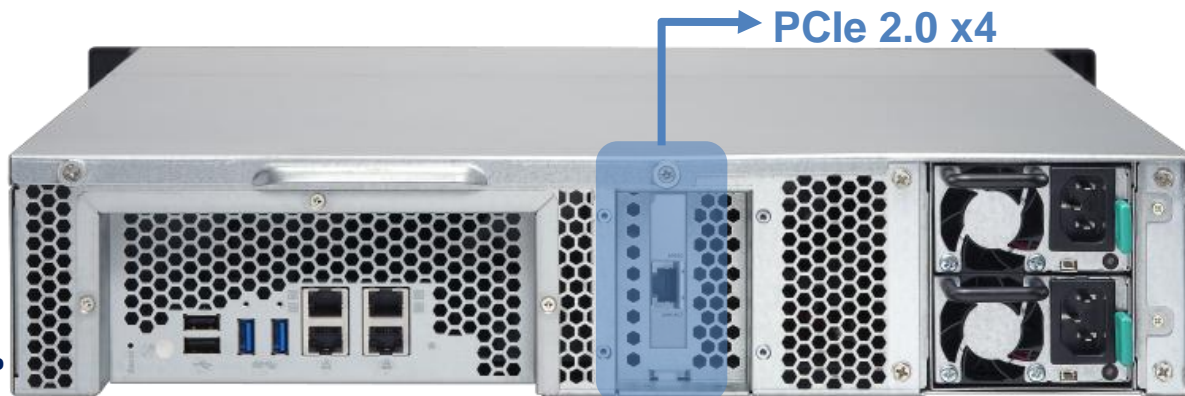


LAN-10G2SF-MLX

2.4G/5G wireless AP



QWA-AC2600

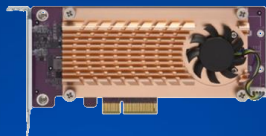
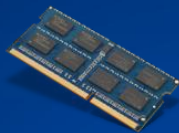


TS-1263XU-RP

PCIe 2.0 x4

DEMO Hardware upgrade

- Memory
- PCIe card



TS-463XU-4G / TS-463XU-RP-4G



TS-863XU-4G / TS-863XU-RP-4G



TS-1263XU-4G / TS-1263XU-RP-4G

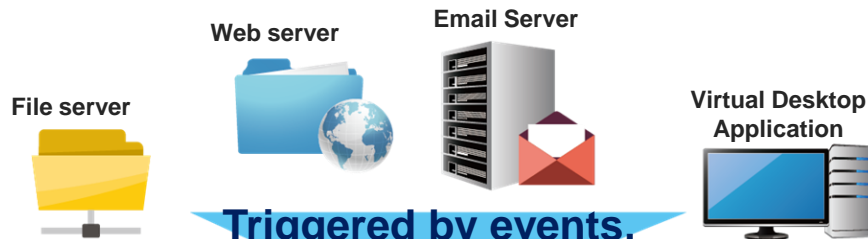
The leading hybrid storage NAS

Advantages

- SSD as storage
- Satisfy both random and sequential usages

Use Cases

- File Server
- Mail Server
- Web Server
- **VDI Hosting**



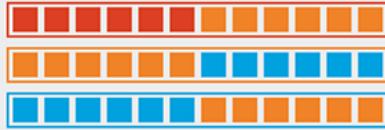
Hybrid Storage System

- Frequently-accessed data
- Infrequently-accessed data
- Rarely-accessed data

1 Before tiering:
Frequently-accessed data
performance is not optimized



4 Changes in data
access patterns

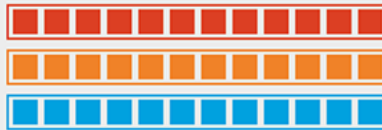


2 Start data tiering



How Qtier Works

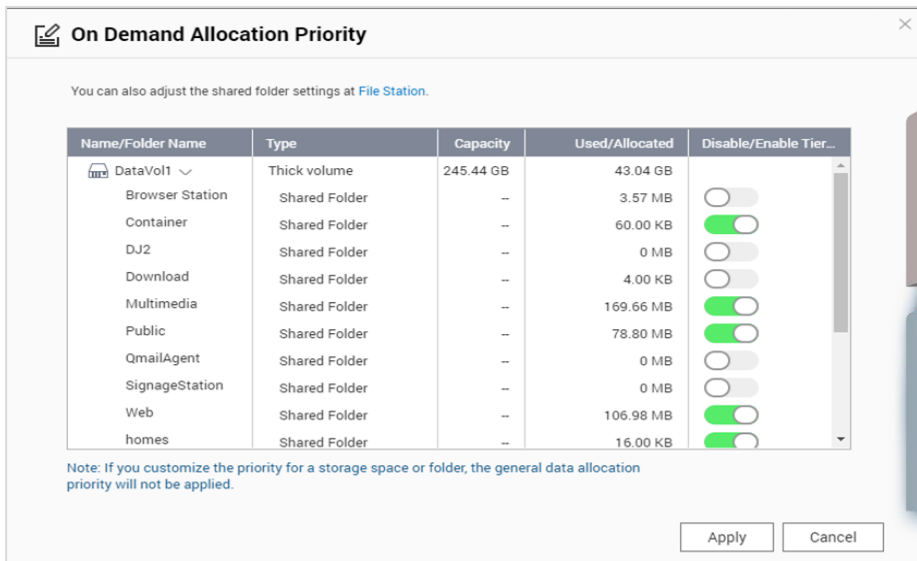
3 After tiering:
Frequently-accessed data
performance is optimized



- Automatically moves data between different tiers
- SSD cache capacity will not be limited by RAM size

Qtier 2.0 Tiering On Demand

- SSD only has limited capacity that can be used on key applications
- Enable or disable auto-tiering for individual shared folder or iSCSI LUN

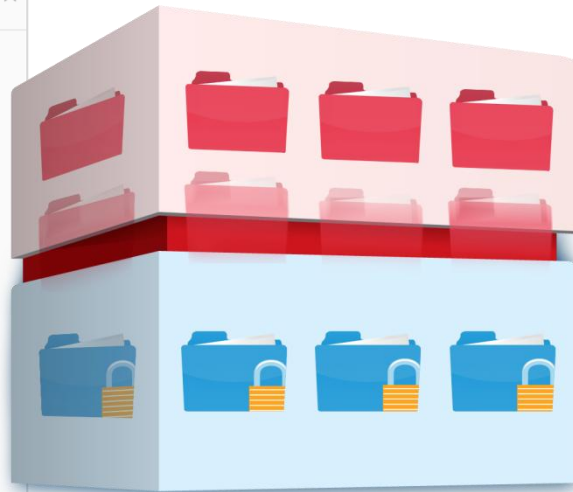
The dialog box is titled "On Demand Allocation Priority" and contains a table of storage settings. Below the table is a note and two buttons: "Apply" and "Cancel".

You can also adjust the shared folder settings at [File Station](#).

Name/Folder Name	Type	Capacity	Used/Allocated	Disable/Enable Tier...
DataVol1	Thick volume	245.44 GB	43.04 GB	
Browser Station	Shared Folder	--	3.57 MB	<input type="checkbox"/>
Container	Shared Folder	--	60.00 KB	<input checked="" type="checkbox"/>
DJ2	Shared Folder	--	0 MB	<input type="checkbox"/>
Download	Shared Folder	--	4.00 KB	<input type="checkbox"/>
Multimedia	Shared Folder	--	169.66 MB	<input checked="" type="checkbox"/>
Public	Shared Folder	--	78.80 MB	<input checked="" type="checkbox"/>
QmailAgent	Shared Folder	--	0 MB	<input type="checkbox"/>
SignageStation	Shared Folder	--	0 MB	<input type="checkbox"/>
Web	Shared Folder	--	106.98 MB	<input checked="" type="checkbox"/>
homes	Shared Folder	--	16.00 KB	<input checked="" type="checkbox"/>

Note: If you customize the priority for a storage space or folder, the general data allocation priority will not be applied.

Apply Cancel



Hot data and reserved block

Cold and archived data

QTS and virtualization

QTS 4.3.4 storage and snapshot management plus multimedia enhancements

Multi-OS in One
Run Windows/Linux VMs and containers

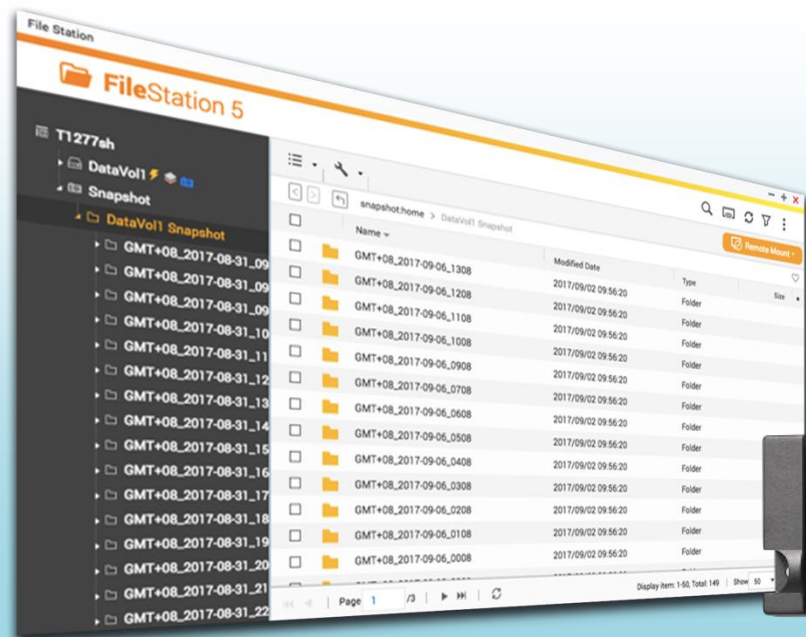


Virtualization Station



Container Station

Snapshot data protection



Max per NAS

1024

Max per
volume/LUN

256

Protection
against
ransomware!



High-capacity surveillance solution



Surveillance Station 5.1

Free: **4 camera channels**
Max: 40 channels (optional licenses)



QVR Pro

Free: **8 camera channels**
Max: 128 channels (optional licenses)



QUSBCam2

Up to 1080p USB Webcam recording



Use iSCSI / JBOD to Expand NAS

- **NAS+iSCSI Target** : Limited functions without knowing target storage condition

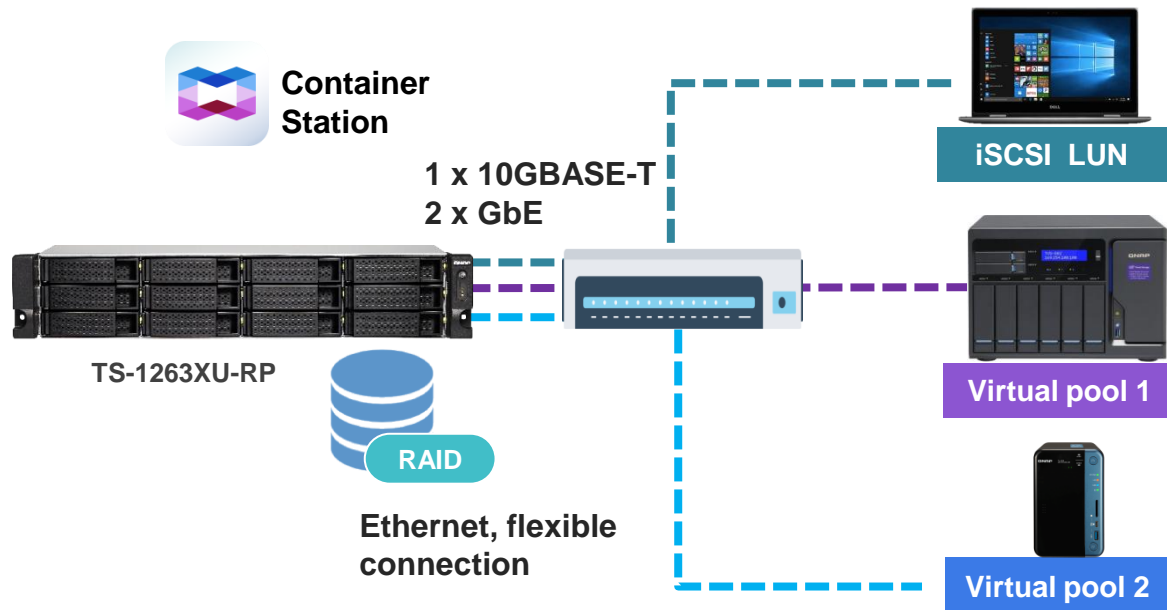


- **NAS+JBOD** : Limited ports with RAID protection on the host

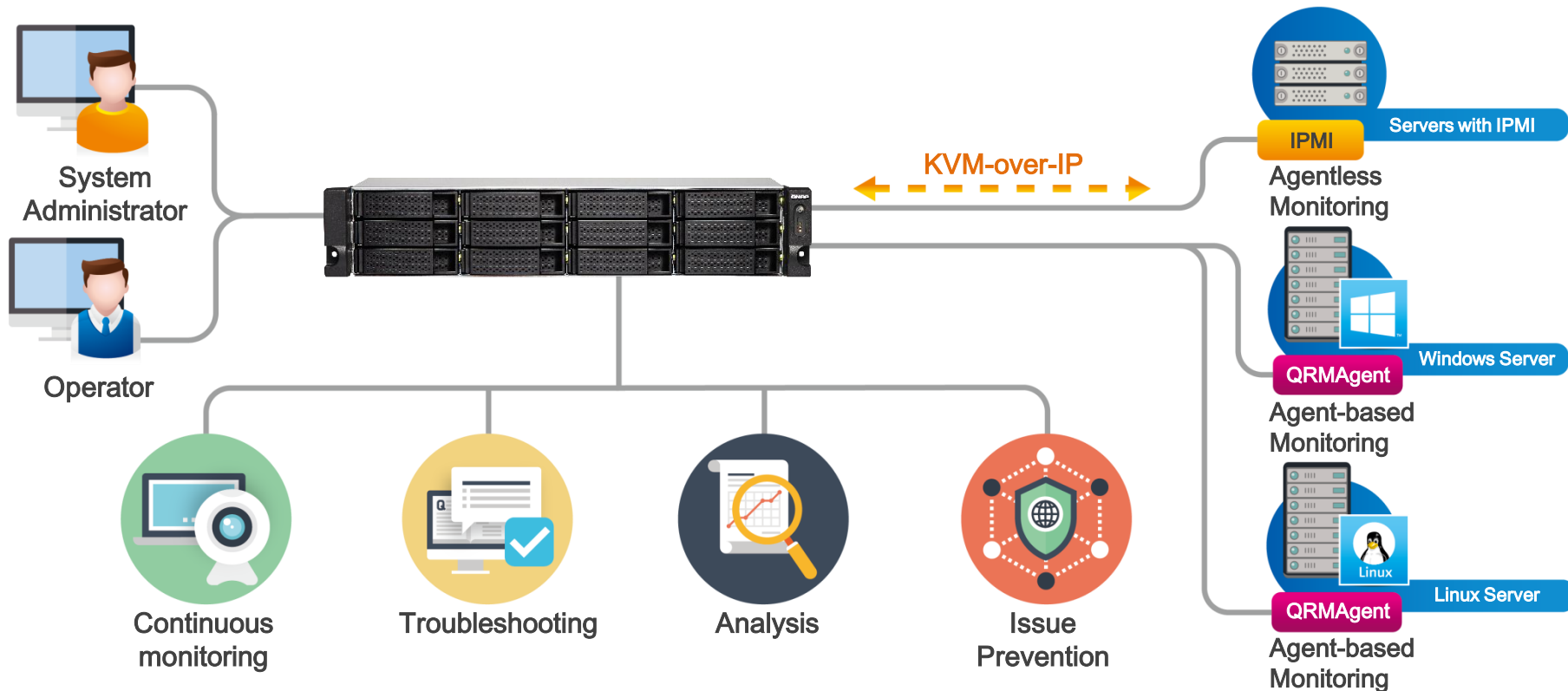


Replacing JBOD with iSCSI VJBOD

- Uses VJBOD to mount a LUN as a local disk
- Create Storage Pool, take snapshot, use media library, Qsirch indexing
- Fully utilize storage space of NAS



Introduction to QRM+



Workflow of QRM+

Add devices



Comprehensive QRM+ Device Monitoring

Continuous Monitoring

- ✓ Data collection
- ✓ Dashboard
- ✓ Network topology

Troubleshooting

- ✓ Support IPMI
- ✓ Web-based remote access

Analysis

- ✓ Historic data
- ✓ Remote recording and playback

Issue Prevention

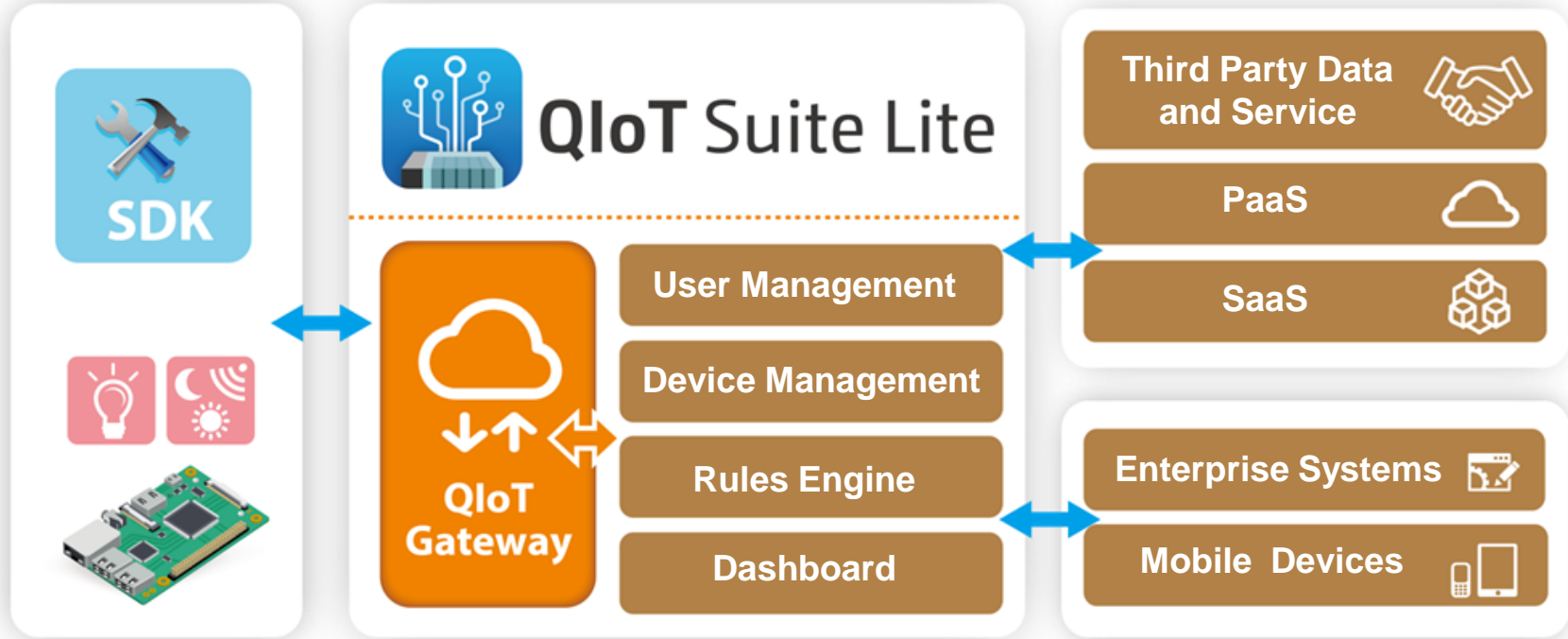
- ✓ Alert and notification
- ✓ Log mgnt.

QIoT Suite Lite

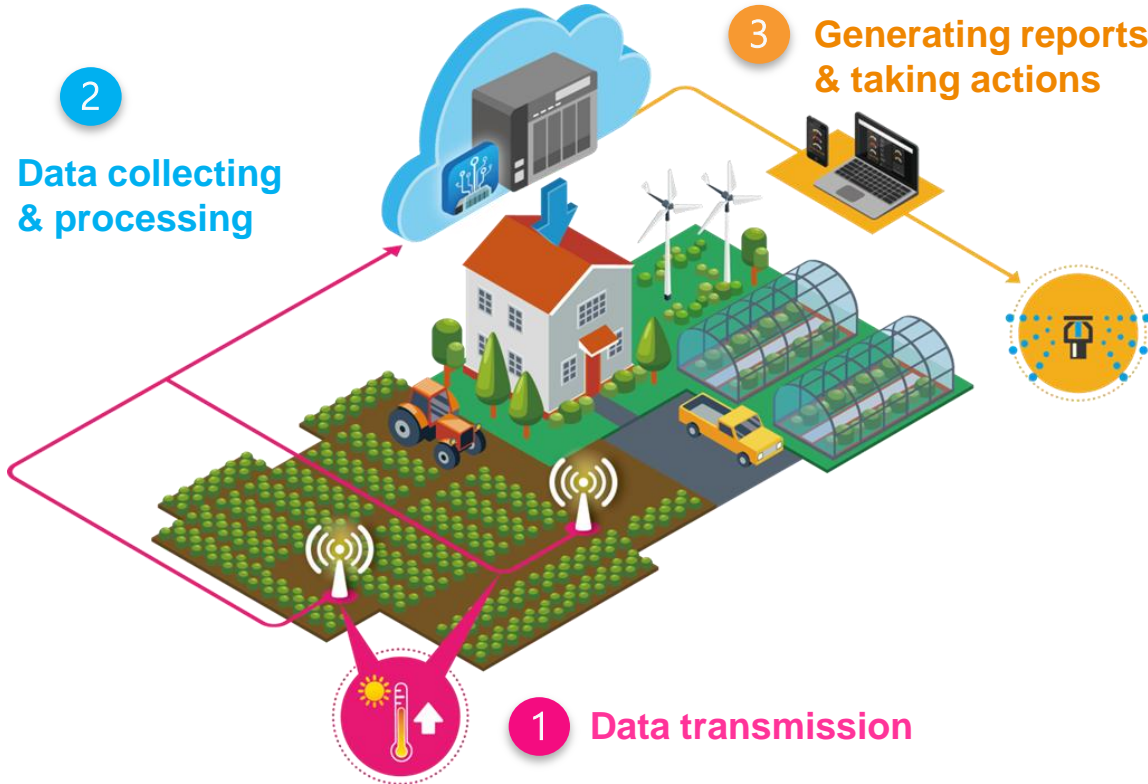
**Create your private
IoT cloud platform**



IoT Cloud Solution



Smart Farm application



Analyzing Data

- Action can be taken in real-time.
- Operation efficiency.

Visualizing Reports

- Optimize farm management & resource usage.



QNAP NAS is your best choice



TS-463XU-4G / TS-463XU-RP-4G



TS-863XU-4G / TS-863XU-RP-4G

TS-x63XU *Newly upgraded to 10GBASE-T with Multi-Gigabit*



TS-1263XU-4G / TS-1263XU-RP-4G