

The QNAP logo is located in the top-left corner of the slide. It consists of the letters "QNAP" in a white, bold, sans-serif font, set against a blue rectangular background that is part of a larger blue and white geometric design.The background of the slide is a complex, abstract geometric composition. It features a central horizontal band with a light blue-to-white gradient. Above and below this band are numerous sharp, angular, 3D-style shapes in various shades of blue and purple, creating a sense of depth and movement. The overall aesthetic is modern and technical.

# **QNAP**

# **Features & Products**

# Company Profile



Industrial integrated  
IoT Solution  
Provider



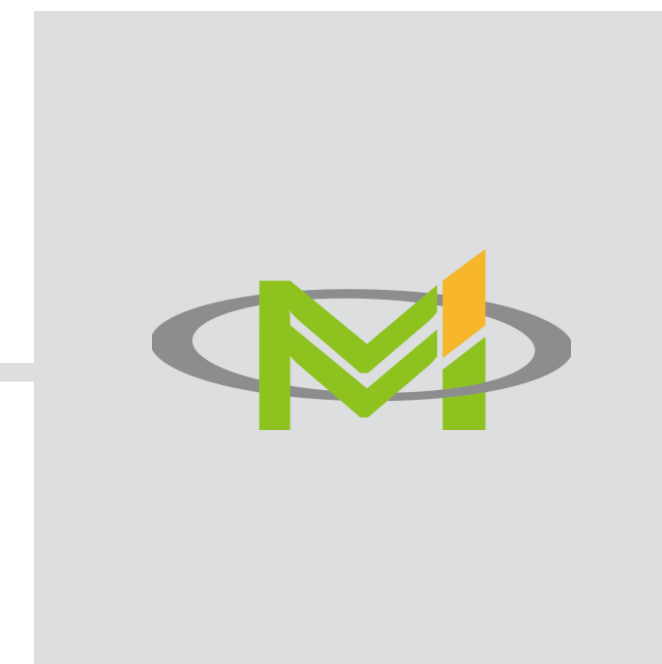
Leading network  
attached storage  
provider



Unique Electronic  
Manufacturing  
Service



Intelligent Medical  
System Provider



Leading Automation  
System Products  
Provider



Professional Chassis  
Manufacturer



# Lancio QTS 4.3.4 – coming soon ...



- ✓ Support 64 bit architecture for improved performance
  - ✓ Set expiration date for accounts
- ✓ Force users to change password periodically
- ✓ Performance measurement to the details
- ✓ exFAT file system natively supported
  - ✓ by Windows & Mac (licence)
  - ✓ Qsync Central Station 3.0
- ✓ QVPN - Integration of VPN functions
  - ✓ Real time Qtier Auto Tiering 2.0
  - ✓ T2E ( Thunderbolt-to-Ethernet )
- ✓ Virtualization Station 3.0 New UI
  - ✓ Hybrid Backup Sync



## Backup dei dati rapido e preciso

I LUN basati su blocco sono altamente efficienti e sono ideali per gli ambienti di virtualizzazione, consentendo di condividere in modo semplice lo spazio di archiviazione NAS con altri dispositivi. Le Snapshot LUN basate su blocco di QNAP supportano i backup incrementali copiando solamente i dati modificati. Non solo consente di risparmiare lo spazio di archiviazione, ma offre anche un backup e recupero rapido della snapshot, aiutando a ridurre il tempo di recupero dai disastri.

## QNAP Snapshot



# The Dangers of 'Ransomware'

The WannaCry ransomware cyber-attack has hit more than 200,000 computers in 150 countries since Friday, Europol says.

Governments, hospitals and major companies have all found themselves battling the malware, which demands money in return for unfreezing computers.

**- BBC**

May 14, 2017: 12:54 PM ET

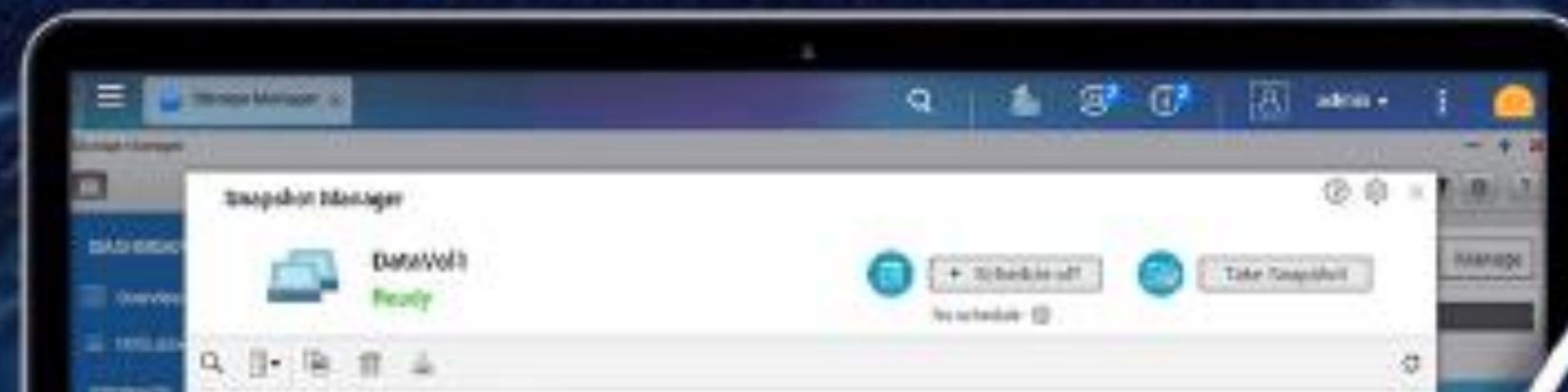


# DR - Ripristino, non solo Backup

## Proteggere i tuoi dati da ransomware

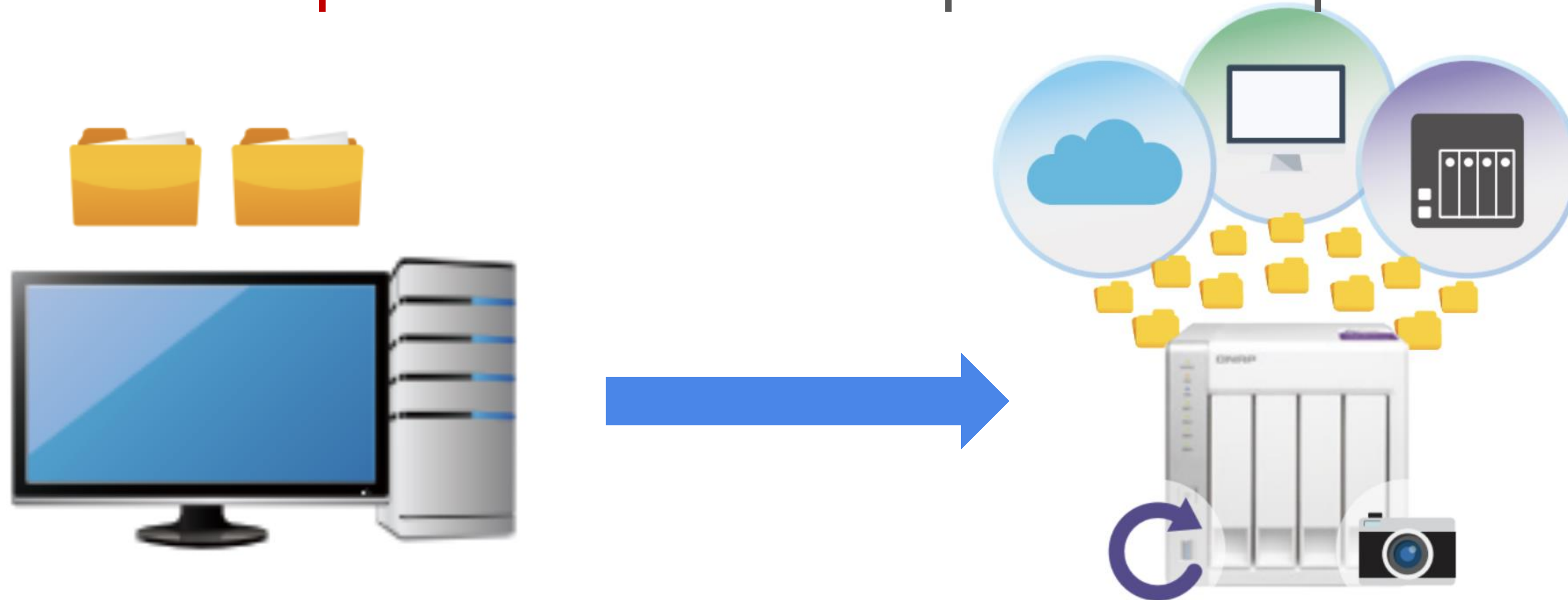
Creare un piano di ripristino contro i virus locker di crittografia

Ransomware è una minaccia sempre più incombente per gli utenti business e quelli domestici che prende di mira i computer e i dispositivi in rete. Un metodo semplice ma efficace per ridurre la minaccia di ransomware consiste nell'aver backup in remoto sempre aggiornati. Il NAS QNAP è un centro di backup ideale che comprende funzioni di backup complete e supporta le istantanee di un dato momento per aiutare le persone e le organizzazioni a proteggere dati importanti, ripristinare file ed evitare interruzioni.



# Perchè abilitare gli Snapshot?

- The ransomware can invade backup destination from originally data.
- Except from backing up data, backup data also need protection.
- **Block-based snapshot** is the solution to protect backup data.



# Volume and LUN Snapshot

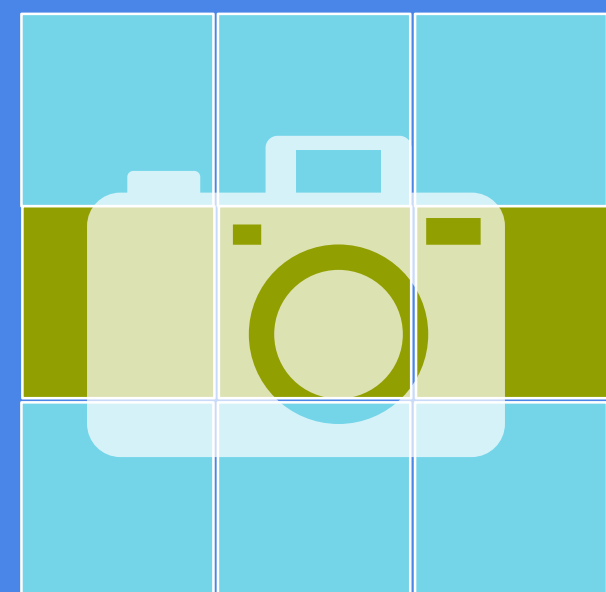
## Whole volume/LUN snapshot

Up to 64 snapshots for each storage item for fast restoring.

### Volume Snapshot



### Block-based iSCSI LUN Snapshot



The screenshot displays the 'Snapshot Manager' interface for 'DataVol1'. It shows a timeline of snapshots from 08/21 to 'Now'. A specific snapshot 'GMT+08\_2017-08-31\_1900' is selected, showing its details: Taken: 2017-08-31 19:00:04, Replicated: No, Expiry Time: 2 Days, Status: Ready, Capacity: 298.17 GB. The interface also includes a file tree with folders like Multimedia, Download, Web, Public, and homes, and a 'Restore' button at the bottom right.





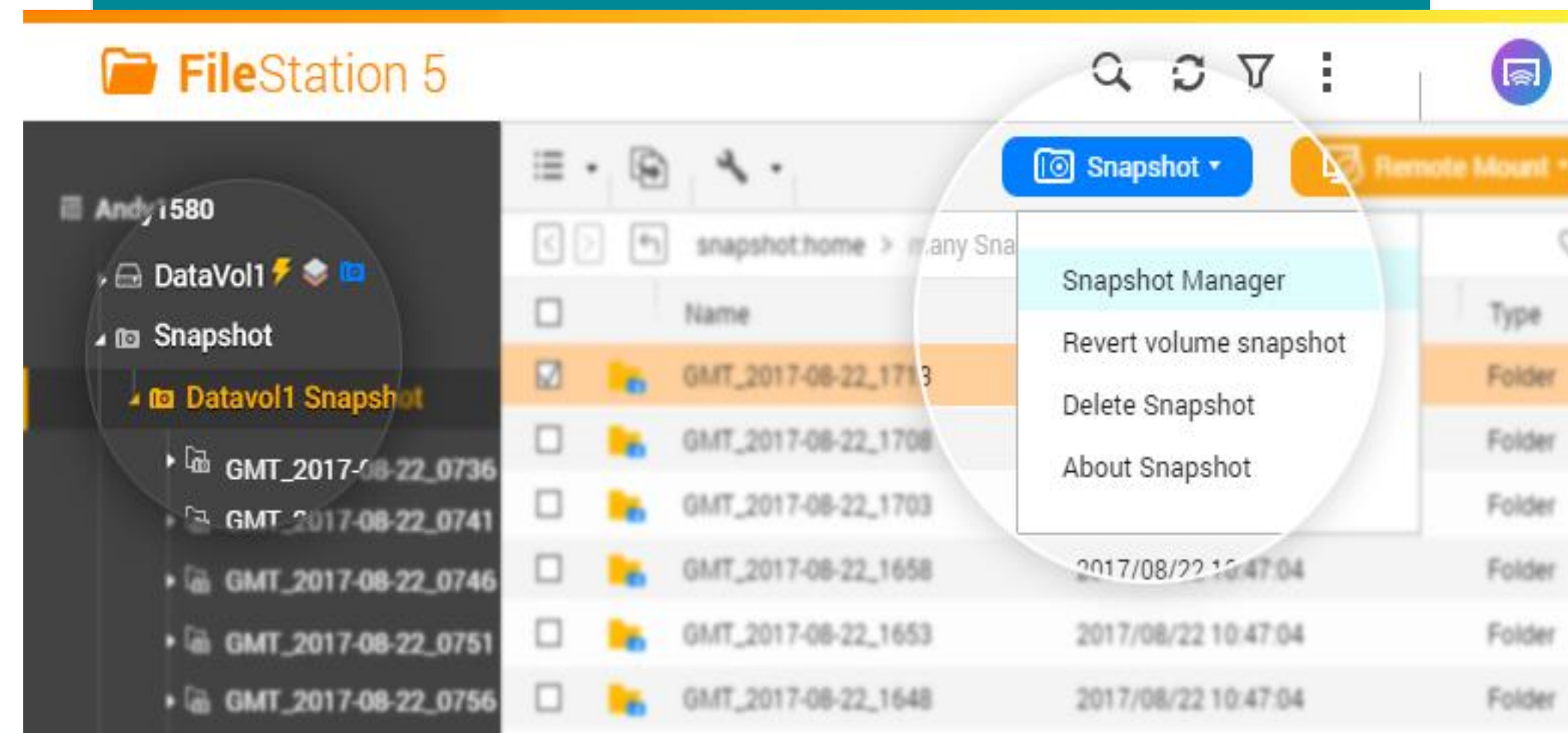
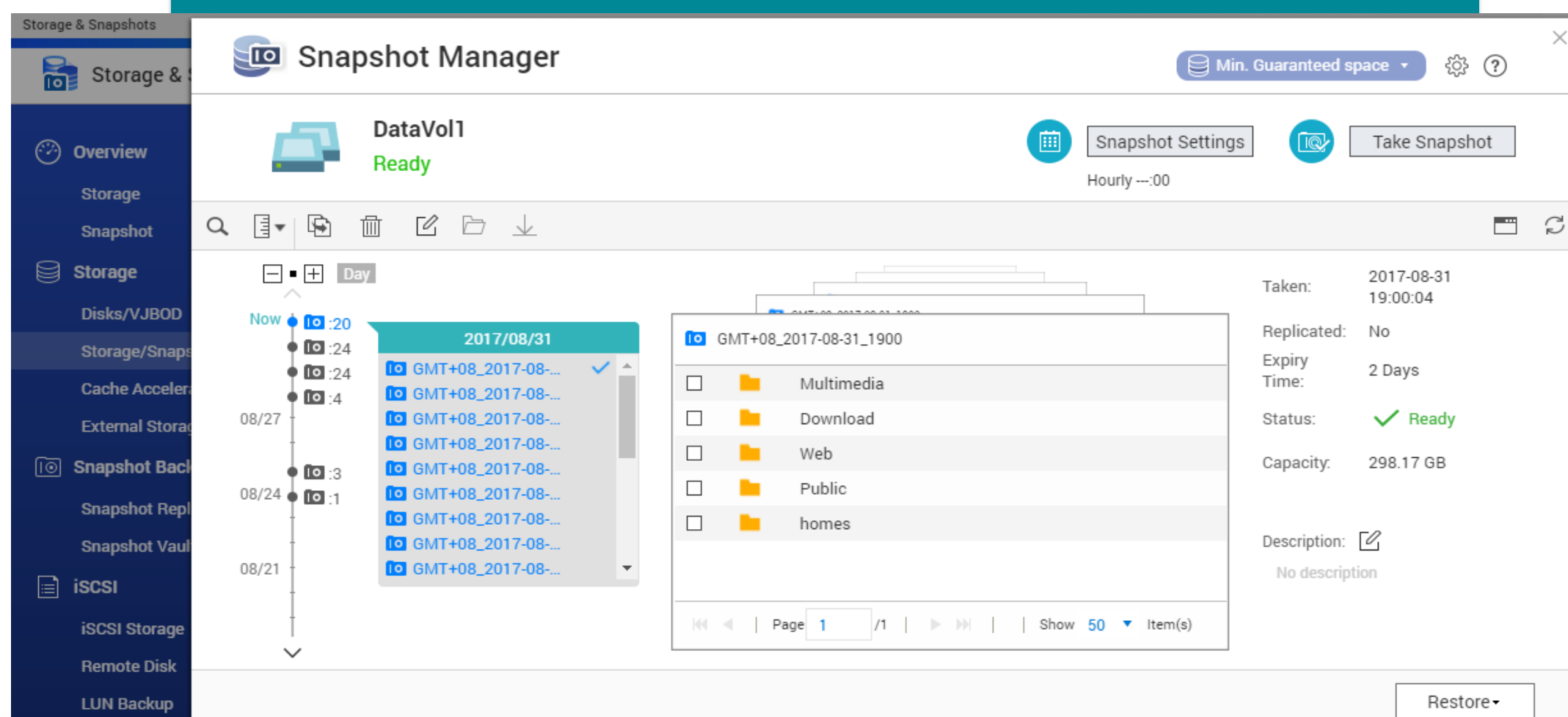
# Select different restoring methods On-demand

## Local Restore

- Revert whole Volume/LUN
- Restore selected files
- Restore to remote location
- Cypypaste at File Station

## Remote Restore

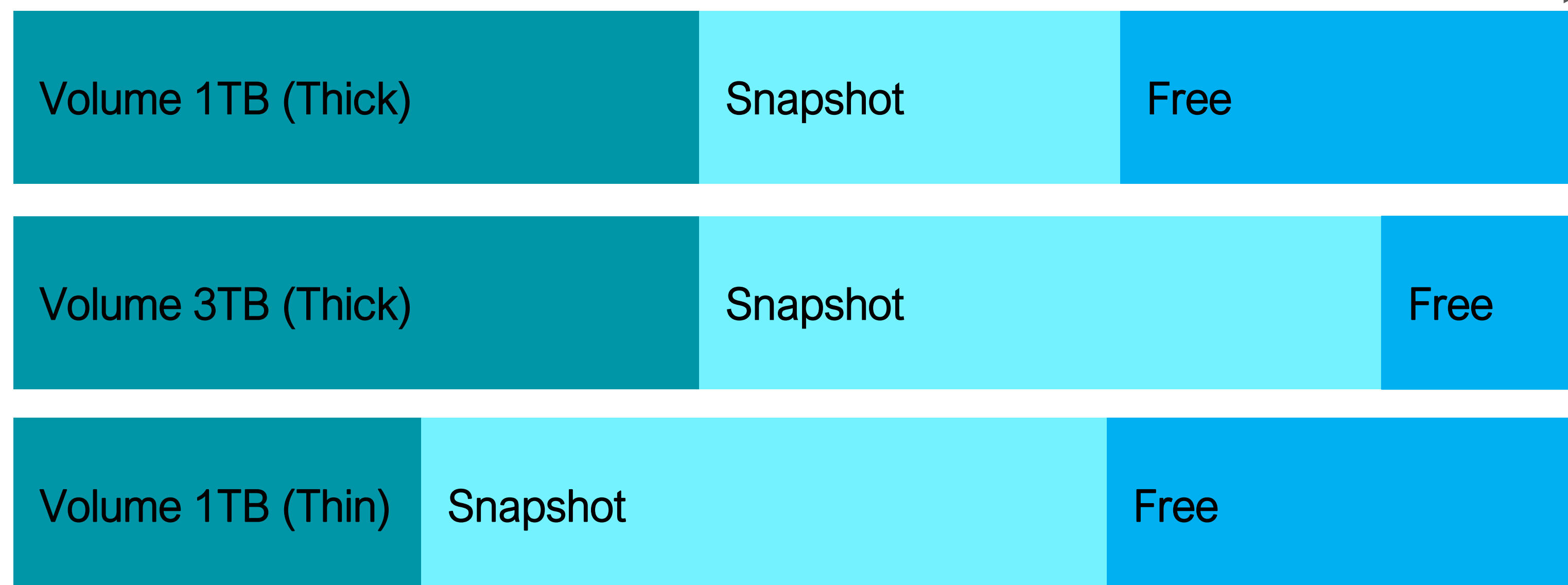
- Restore from Snapshot Vault
- Clone from Snapshot Vault
- Cypypaste at File Station



# Necessario pianificare lo spazio per gli Snapshot

- Snapshot will store at the free Storage Pool space, which may be allocated for other space usage at any time.
- If free Storage Pool space is not enough, a Thick Volume can be converted to Thin volume to increase free more space

## Storage Pool (3TB)



# QNAP Snapshot

Snapshot Application	QNAP	Competitors that use Btrfs (S-brand, N-brand)	Other competitors (W-brand, B-brand)
Block-based iSCSI LUN (Thick Provisioning and Thin Provisioning)	✓	✗	✗
File-based iSCSI LUN (Thin Provisioning)	Protected by the volume snapshot, the process is done within seconds. ✓	✗	✗
File-based iSCSI LUN (Thick Provisioning)	Protected by the volume snapshot, the process is done within seconds. ✓	✓	✗
Volume (Multiple Folders)	✓	✗	✗
Shared Folder	With Snapshot Shared Folder ✓	✓	✗
Availability	All x86-based (Intel/AMD) models	Only available on	✗



# Snapshot per ARM

- 4.3.4: Official Release at November 2017
- Support TS-x31X, TS-x31XU, TS-1635 and more
- To use Snapshot, the NAS must has at least 4GB RAM





10GbE SFP+ Port

TS-431X

## 10GbE-ready NAS Expecting 10GbE as a standard



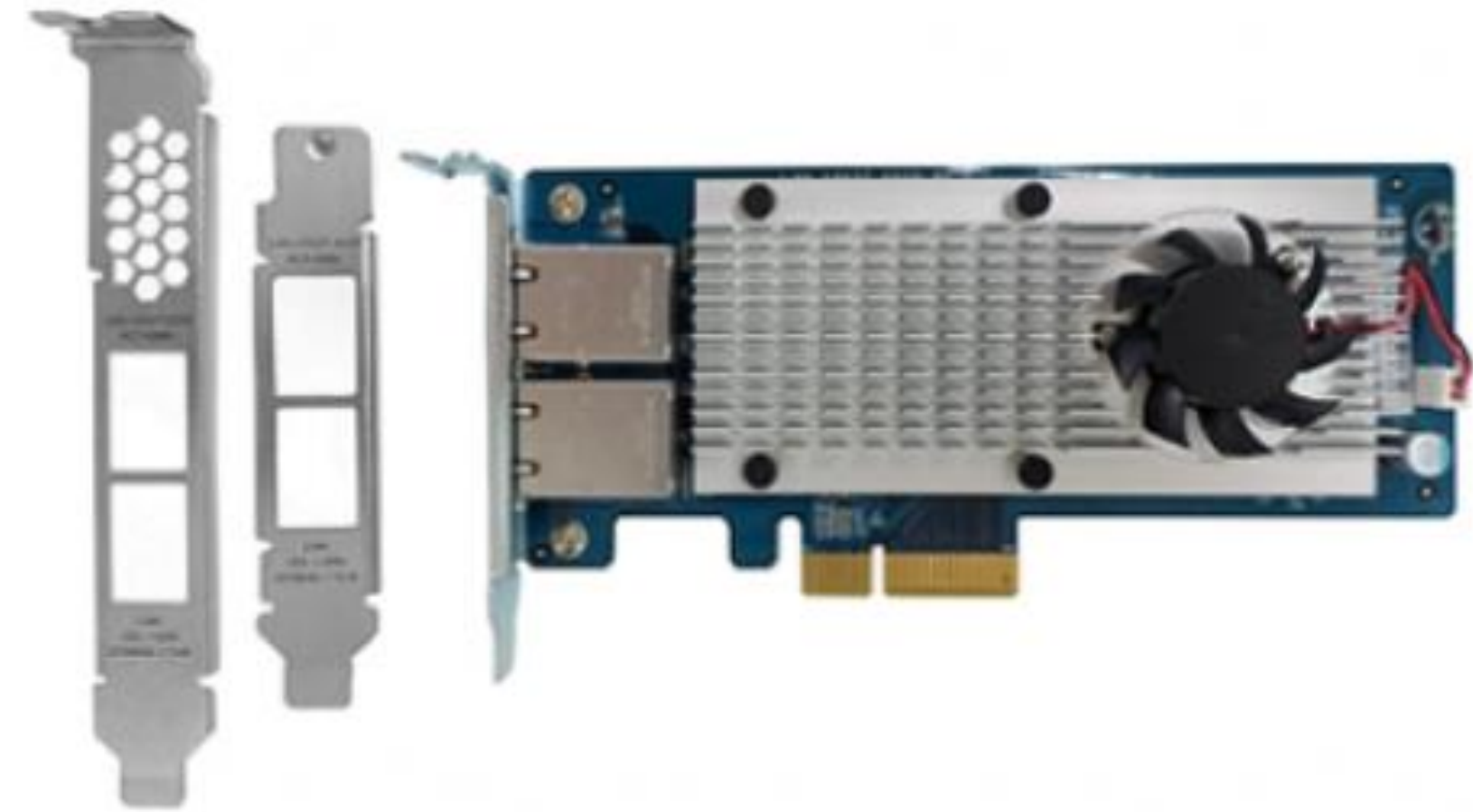
QNAP offers powerful, affordable high-speed 10GbE-ready NAS suited for all organizations - from huge enterprises to small offices - that require high ban

**BIG**  
**THiNK**

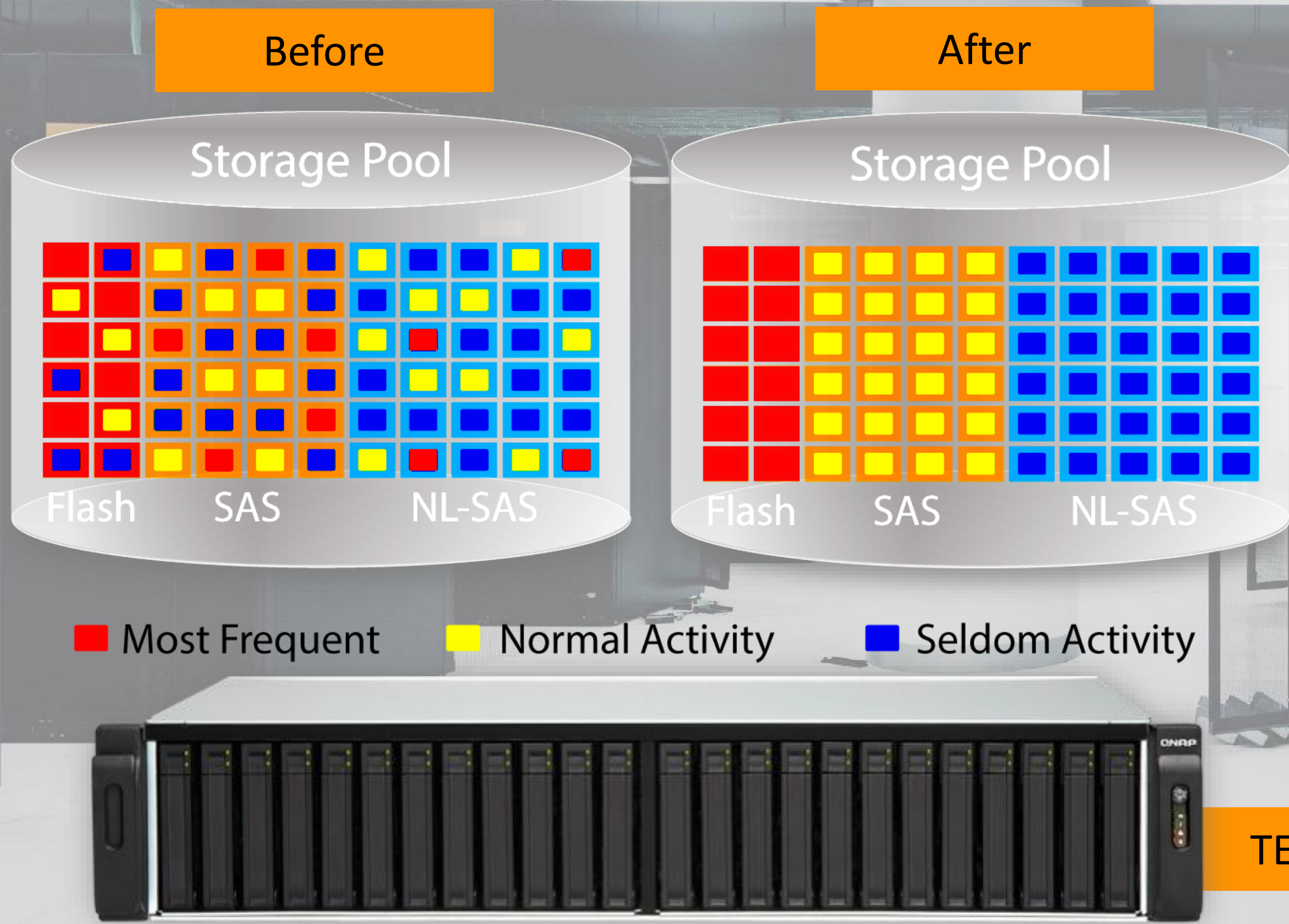
# 10G card SFP+ vs copper RJ45



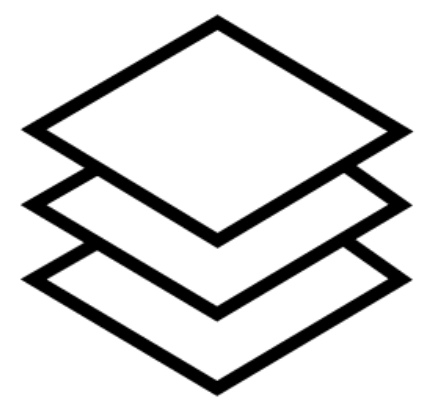
10G SFP +: **LAN-10G2SF-MLX**



10GbE rame: **LAN-10G2T-X550**



# Qtier™ Optimization Enabling 24/7 optimized storage efficiency



Qtier Technology empowers QNAP NAS with Auto Tiering that helps continuously optimize storage efficiency across SSD, SAS, a

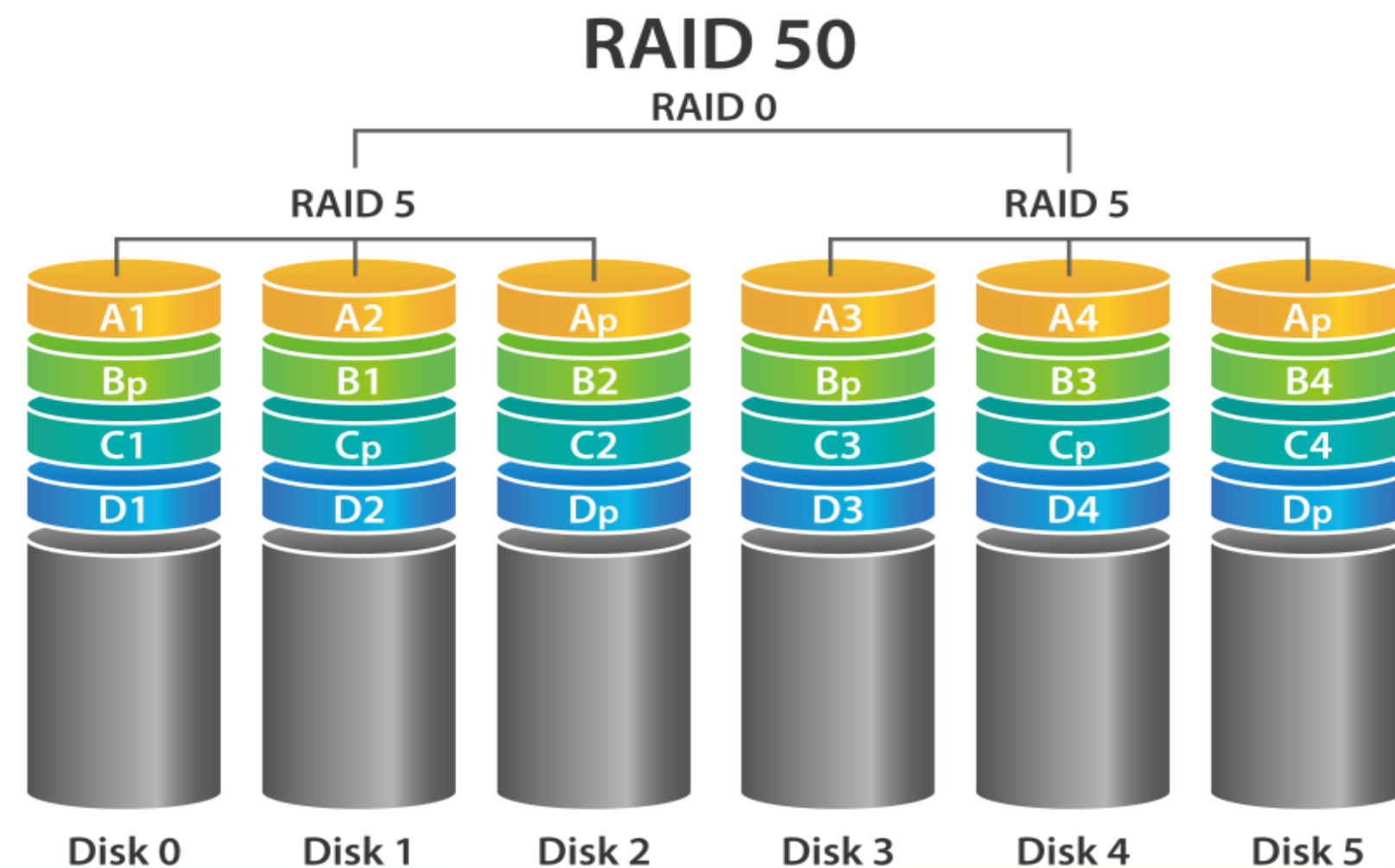


# RAID 50 & 60 con la 4.3.4

- QNAP RAID 50/60 : A striping Pool with multiple RAID 5/6 sub-arrays
- **Less space used for redundancy +** increased RAID protection

RAID type	Disks	Disk Failure Tolerance	Capacity	Chance of Failure
RAID 5	12	1	66TB	6.15%
QNAP RAID 50	12	More than 2	60TB	<b>0.6%</b>
RAID 10	12	More than 2	36TB	0.2%

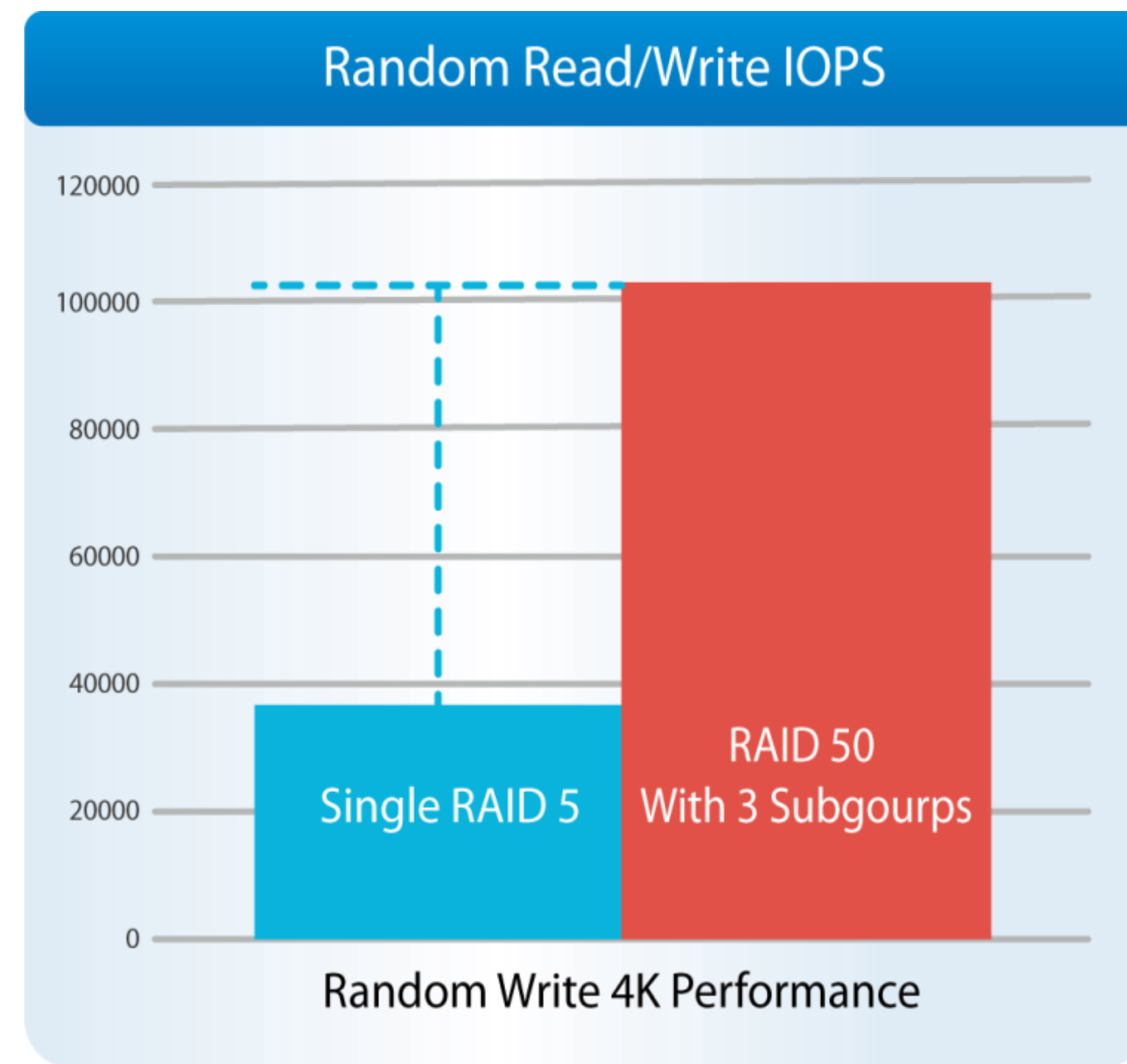
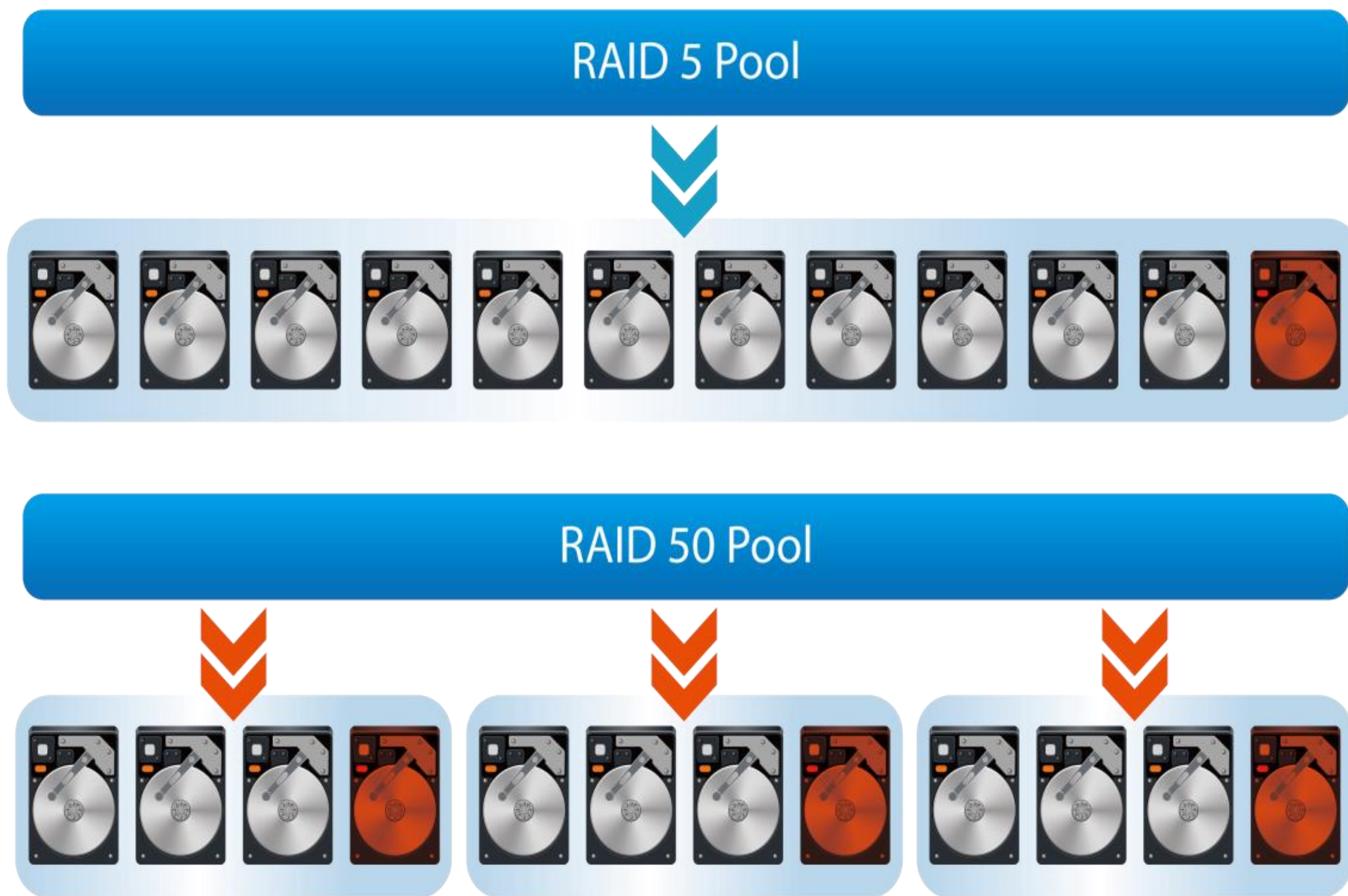
Actual disk failure tolerance depends on the number of RAID50/60 sub-arrays.





# RAID 50: 3X Performance

- Striping Pool : Multiple RAID 5 groups combined using RAID 0
- Compare a **RAID 5 group with 15 SSDs** vs a **RAID 50 group with 17 SSDs in 3 sub-groups**
- Random write performance **increases 300% (+60,000 IOPS)**

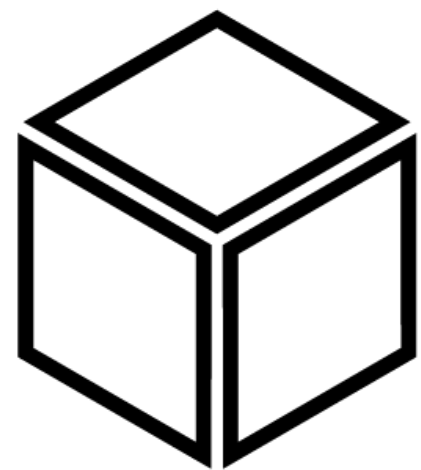




TDS-16489U

## Virtualization

Storage for virtualized environments,



QNAP NAS provides high-performance, reliable and affordable storage solutions for **VMware® vSphere™**, **Microsoft® Hyper-V®**, and **Citrix® XenServer™**. It is also a server to host virtual machines (with **Virtualization Station**) and containerized apps (with Container Station) for greater usage potential.



Active-Active HA Dual Controller

ES1640dc v2

## High Availability

Dual-controllers for near-zero downtime



Designed for mission-critical IT tasks, the Enterprise ZFS NAS excels in providing High Availability solutions for file servers, virtualization servers, virtual desktops, online video streaming, snapshots and remote recovery.

**BIG**  
**THiNK**

**QNAP**

# *TS-431XeU/ TS-x31P2/ TS-431X2*

 *Snapshot supported ARM NAS, protect data from Ransomware*



# Quad core/10GbE Ready NAS



**TS-231P2-1G**

1GB RAM

**TS-231P2-4G**

4GB RAM



**TS-431P2-1G**

1GB RAM

**TS-431P2-4G**

4GB RAM



**TS-431X2-2G**

2GB RAM

**TS-431X2-8G**

8GB RAM



**TS-431XeU-2G**

2GB RAM

**TS-431XeU-8G**

8GB RAM

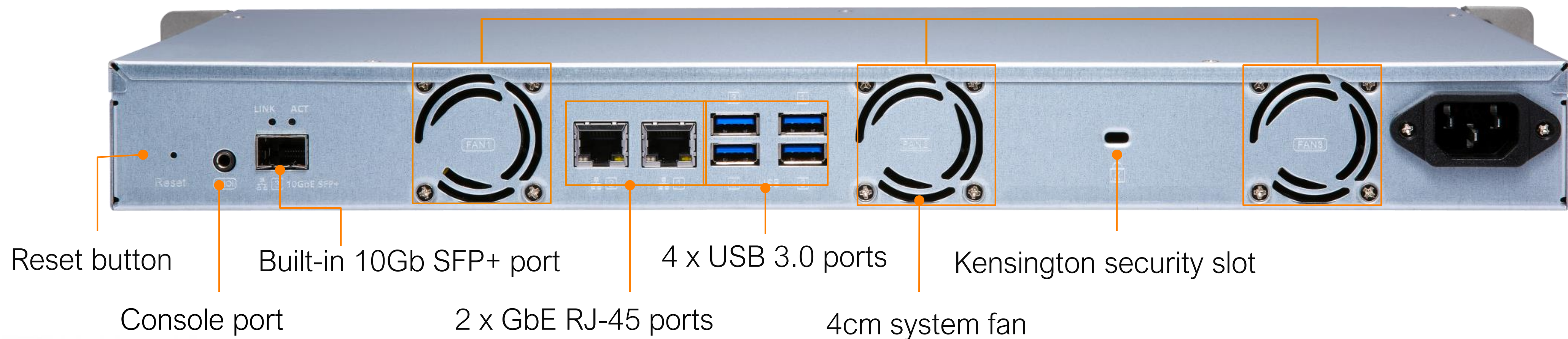
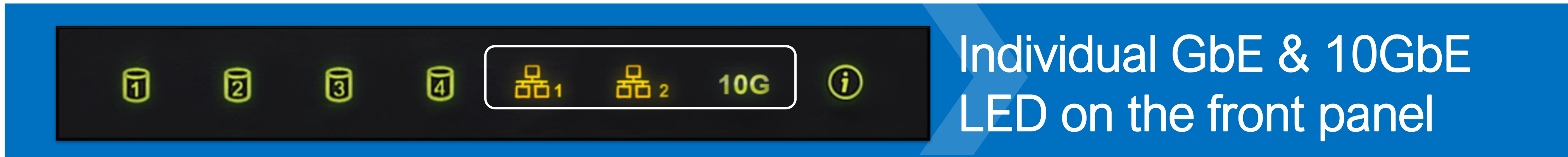


**10GE**  
**SFP+**



**BIG**  
**THiNK**

# TS-431XeU I/O highlights



# Deployable short-depth chassis TS-431XeU

**12**-inch depth, **40%** less than trad chassis

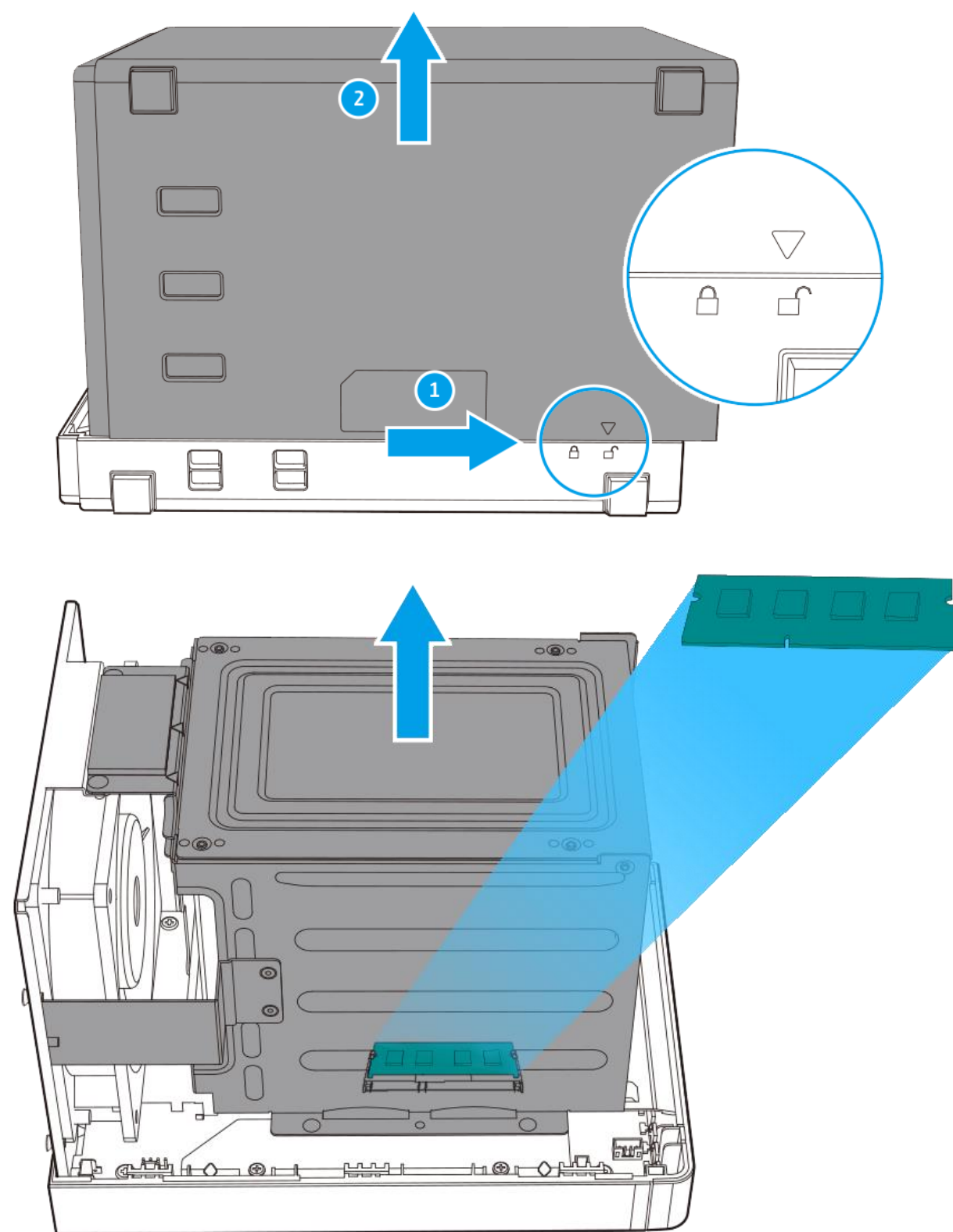


Compatible with standard  
ANSI/EIA-RS-310-D  
19-inch rack  
With optional  
RAIL-B02 Rail Kits

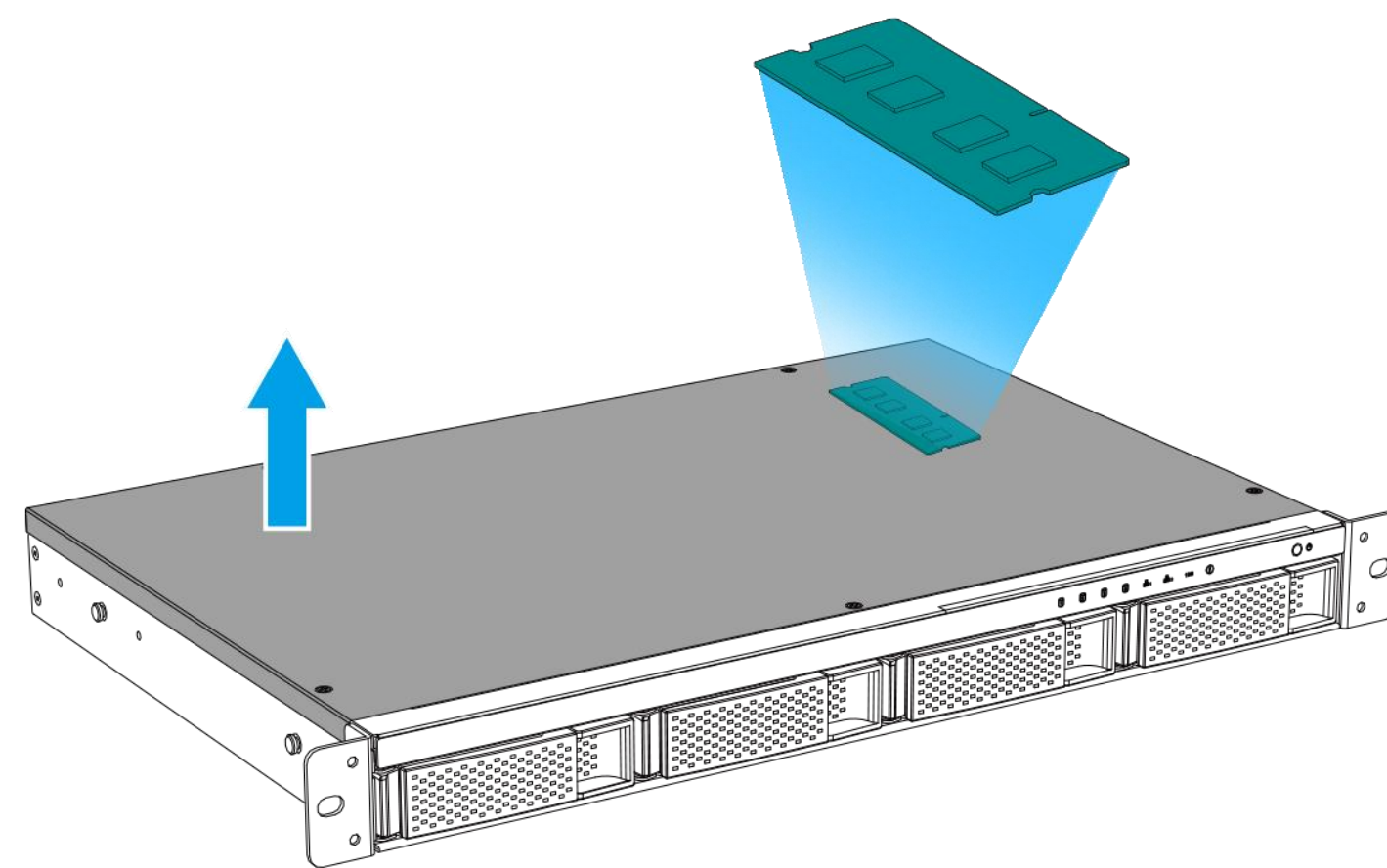


# Memory Upgradable to 8GB DDR3 SODIMM

**TS-231P2 TS-431P2  
TS-431X2**



**TS-431XeU**



\* Certain screws need to be removed.

**QNAP**  
Accessory

**2GB、4GB  
8GB memory**





# More powerful applications are available

All models



**Container Station**  
Light virtualization

≥ 2GB memory



**Qsirch**  
Search engine



**Qfiling**  
File organization

≥ 4GB memory



**Snapshot**  
Data protection

**QNAP**

**4-bay, quad-core, with M.2 SSD for Qtier, and  
Thunderbolt 3 & 10GbE for versatile  
high-speed applications**

# TS-453BT3



**HDMI**™  
HIGH-DEFINITION MULTIMEDIA INTERFACE



**vmware**  
READY



**dlna**



**THUNDERBOLT**™

# A Complete Thunderbolt Product Line



TS-453BT3



TVS-x82T series



TVS-1582TU

TVS-882ST3



# TS-453BT3 Front Side

4 x 3.5"/ 2.5" SATA 6Gb/s HDD/SSD slots

OLED status display & capacitive touch buttons

Power button

LEDs w/ adjustable brightness:  
Drive · Status · LAN · USB

2 x Thunderbolt 3 ports

USB 3.1 Gen 1 & copy button

Lockable cover



# TS-453BT3 Rear Side

2 x M.2 2280 SATA SSD Slots & 1 x 10GBASE-T Port (PCIe 2.0 x 2 slot)

Kensington security slot

2 x 3.5mm dynamic Mic In

1 x 3.5mm line out

2 x 4K HDMI v1.4b output

4 x USB 3.1 Gen 1

2 x Gigabit LAN port

DC 12V power input



2 watt seaker + T.I. amplifier

- System status alert
- Music playback

12 cm high reliability double ball bearing quiet fan

# Instantly view your 4K projects

**750MHz**

9<sup>th</sup> Gen Intel  
HD Graphics 500

**4K UHD**

2 x HDMI v1.4b  
3840 x 2160, 30Hz

**H.265/H.264**

Up to 8-bit HEVC 4K  
Playback & transcoding



The supported video and audio may vary depending on the software, hardware, and the environments.



# 10GbE/M.2 SSD super-charge performance

## 2 x M.2 SATA SSD slots

- Supports M.2 2280 & independent status LEDs
- Set up **SSD cache** or **storage volumes**

## 10GBASE-T RJ45 port

10/5/2.5/1Gbps & 100Mbps

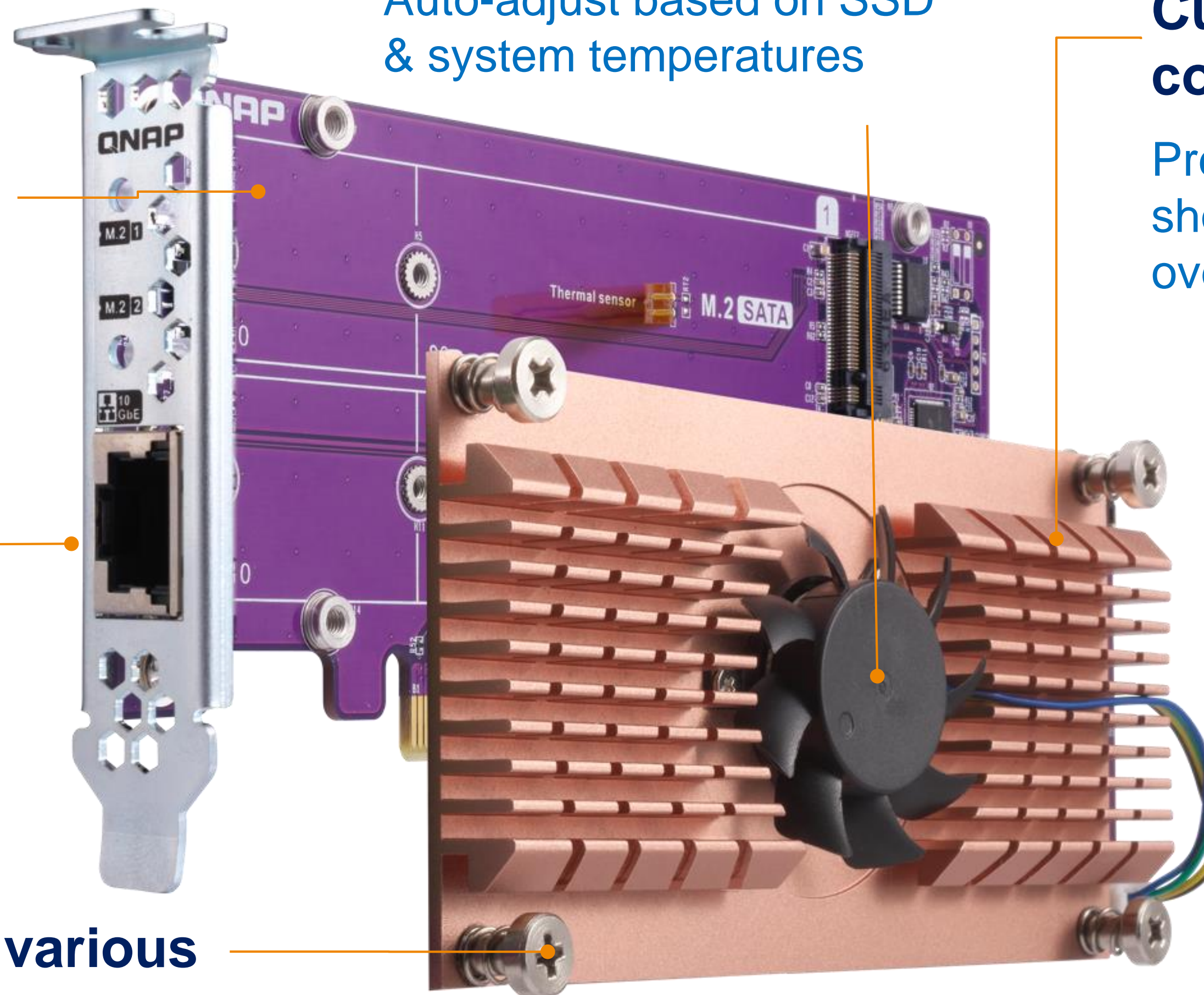
## Adjustable screws for various SSD thickness

## Smart & quiet fan

Auto-adjust based on SSD & system temperatures

## Custom-made aluminum-alloy cooling module

Prevent degraded performance or shorted life span resulted from SSD overheat



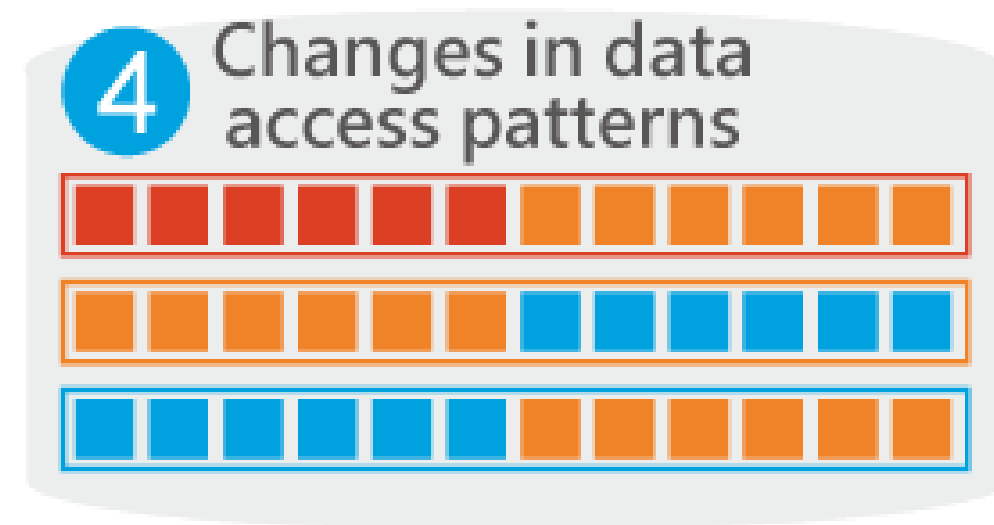
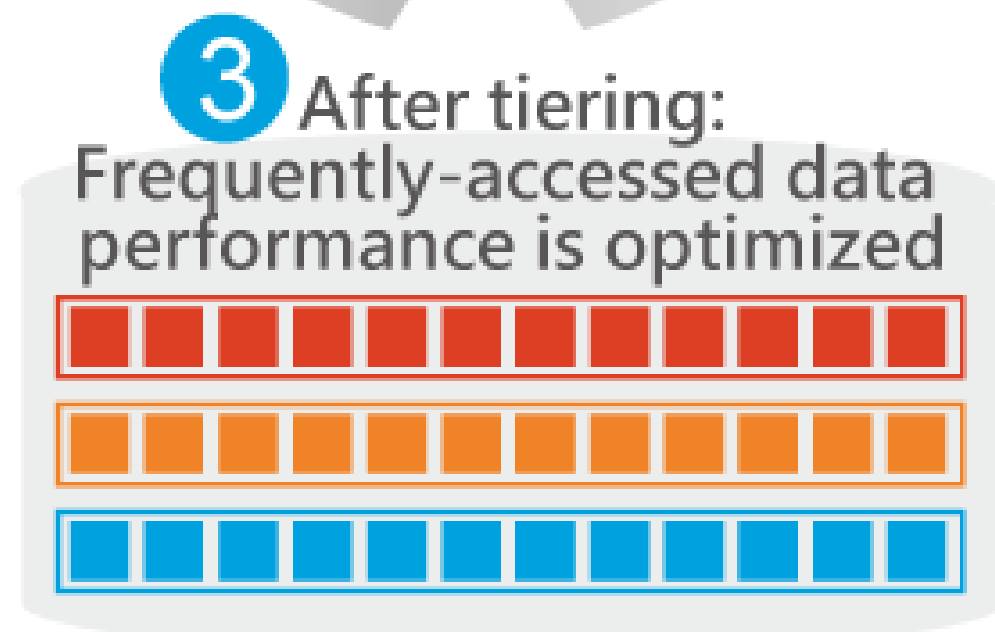
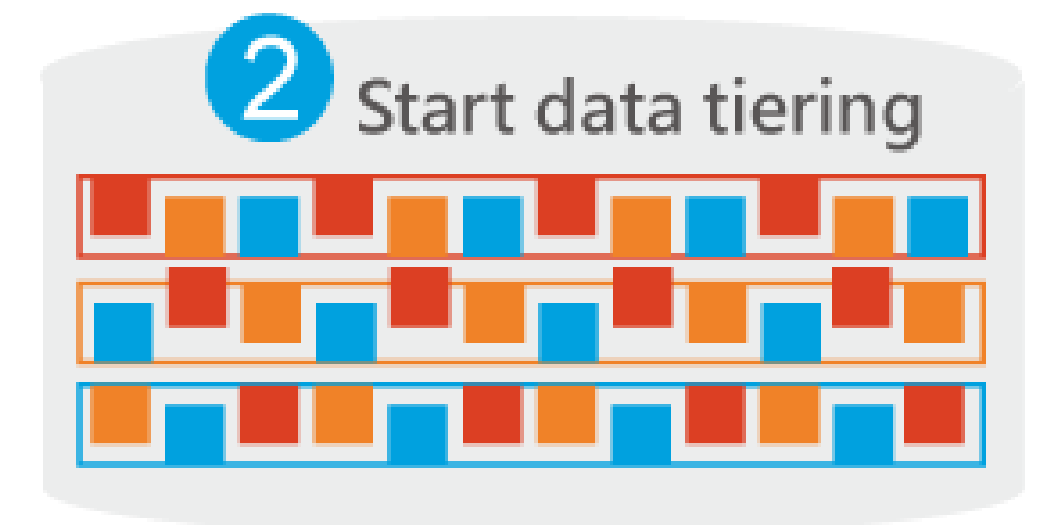
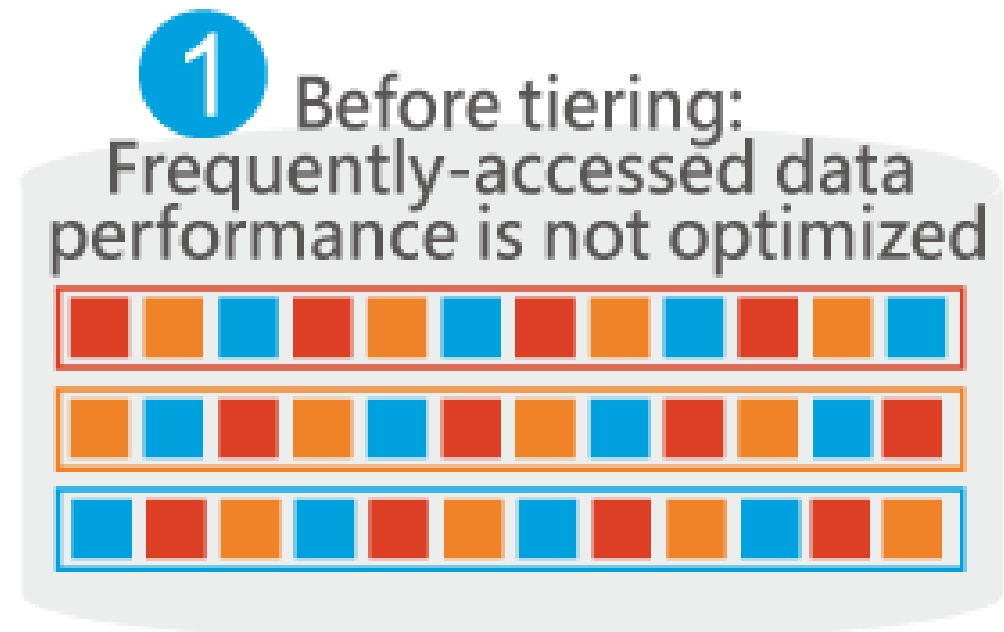
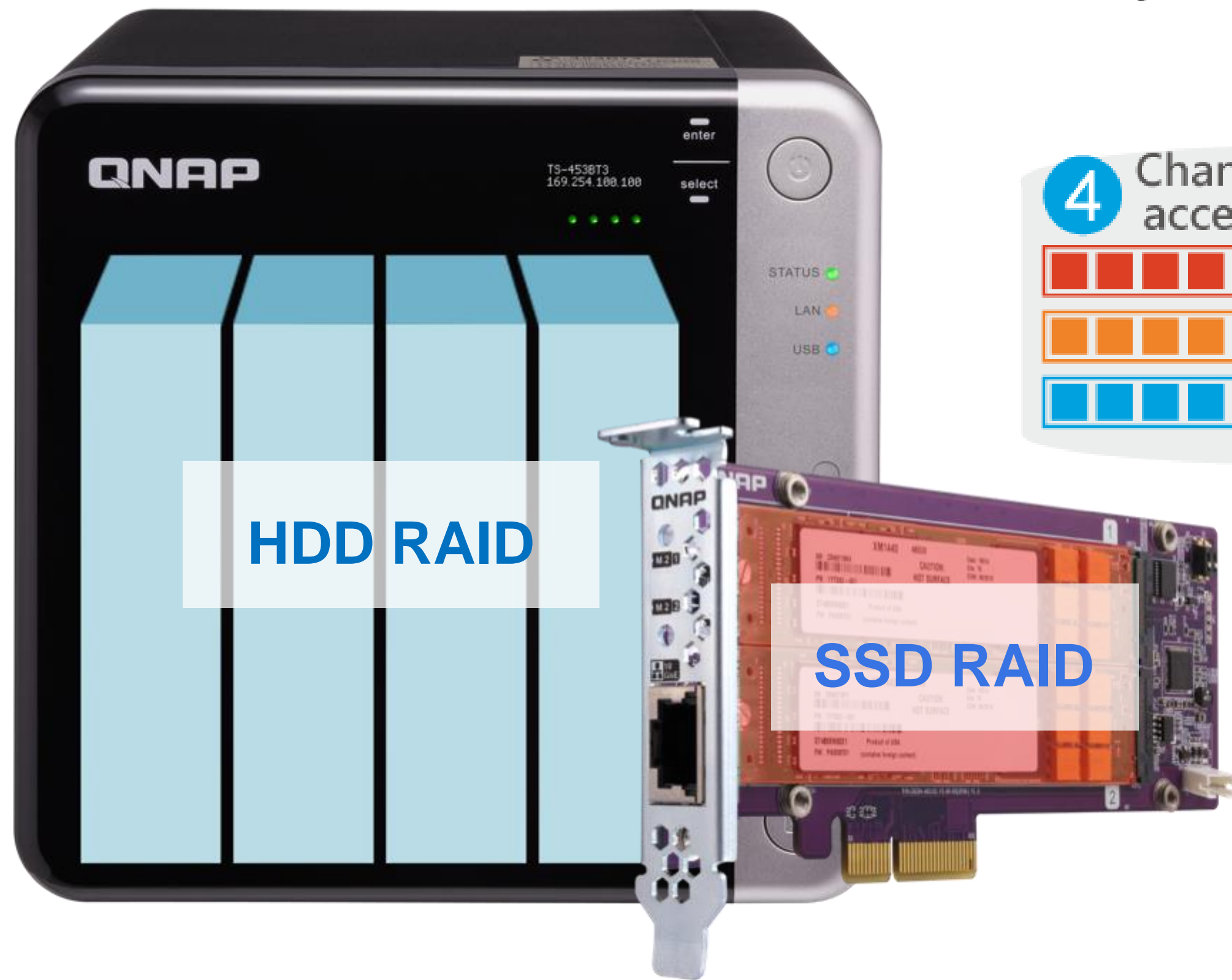
TS-453BT3 comes with its dedicated QM2 card: QM2-2S10G1TB01



# Qtier™ Auto Tiering



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





**QNAP**

# TS-x77 Series

**Supercharge business productivity with efficient, powerful multi-core processing**

QNAP Systems, Inc.



TS-677



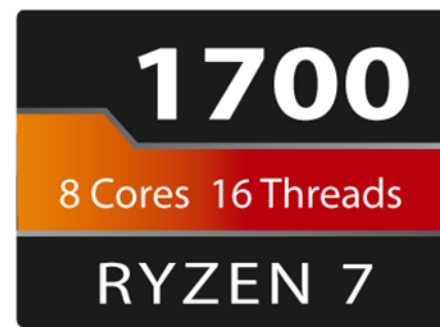
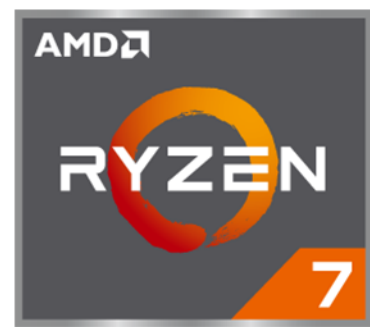
TS-877



TS-1277



# Coming soon in Q4 - November



**TS-1277-1700-64G**

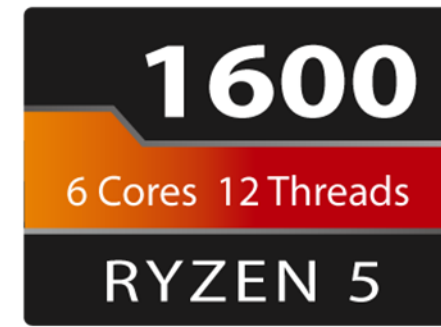
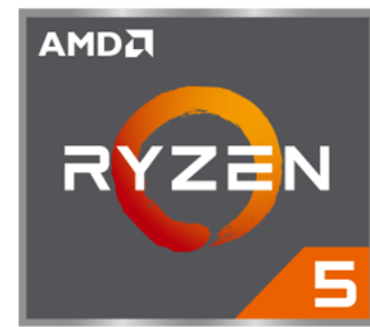
(4 x 16GB)

**TS-1277-1700-32G**

(2 x 16GB)

**TS-1277-1600-16G**

(2 x 8GB)

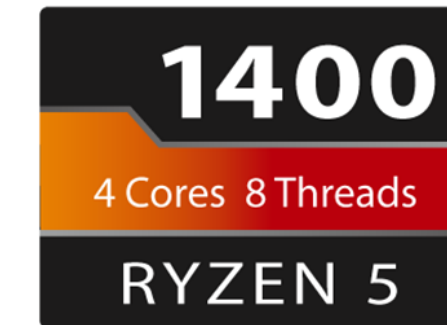
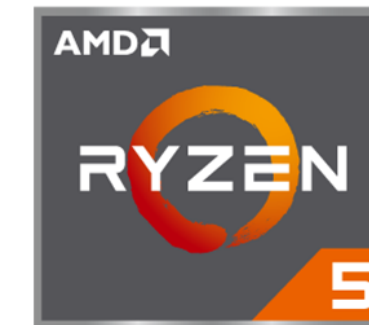


**TS-877-1600-16G**

(2 x 8GB)

**TS-877-1400-8G**

(2 x 4GB)



**TS-677-1400-8G**

(2 x 4GB)

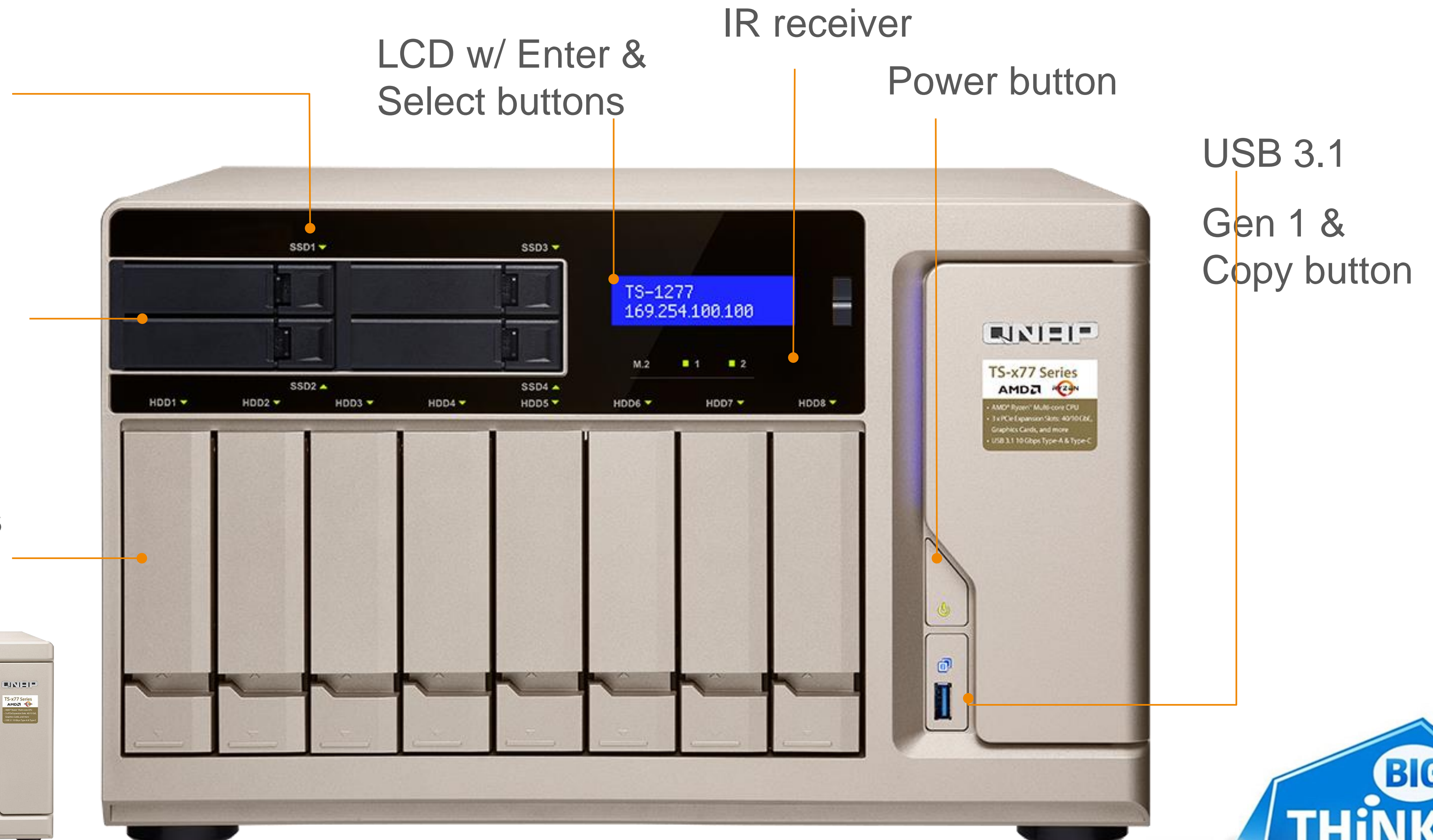


# Front overview

LED indicators w/  
adjustable brightness:  
HDD, SSD, M.2 SSD

2, 4 x 2.5" SSD trays for  
Qtier auto tiering &  
SSD caching

4, 6, 8 x 3.5" HDD trays  
w/ support for 2.5" drives



LCD w/ Enter &  
Select buttons

IR receiver

Power button

USB 3.1  
Gen 1 &  
Copy button



# Rear overview

1 x USB 3.1 Gen 2  
10G Type-A

1 x USB 3.1 Gen 2  
10G Type-C

2 x Dynamic Mic In  
1 x Line out

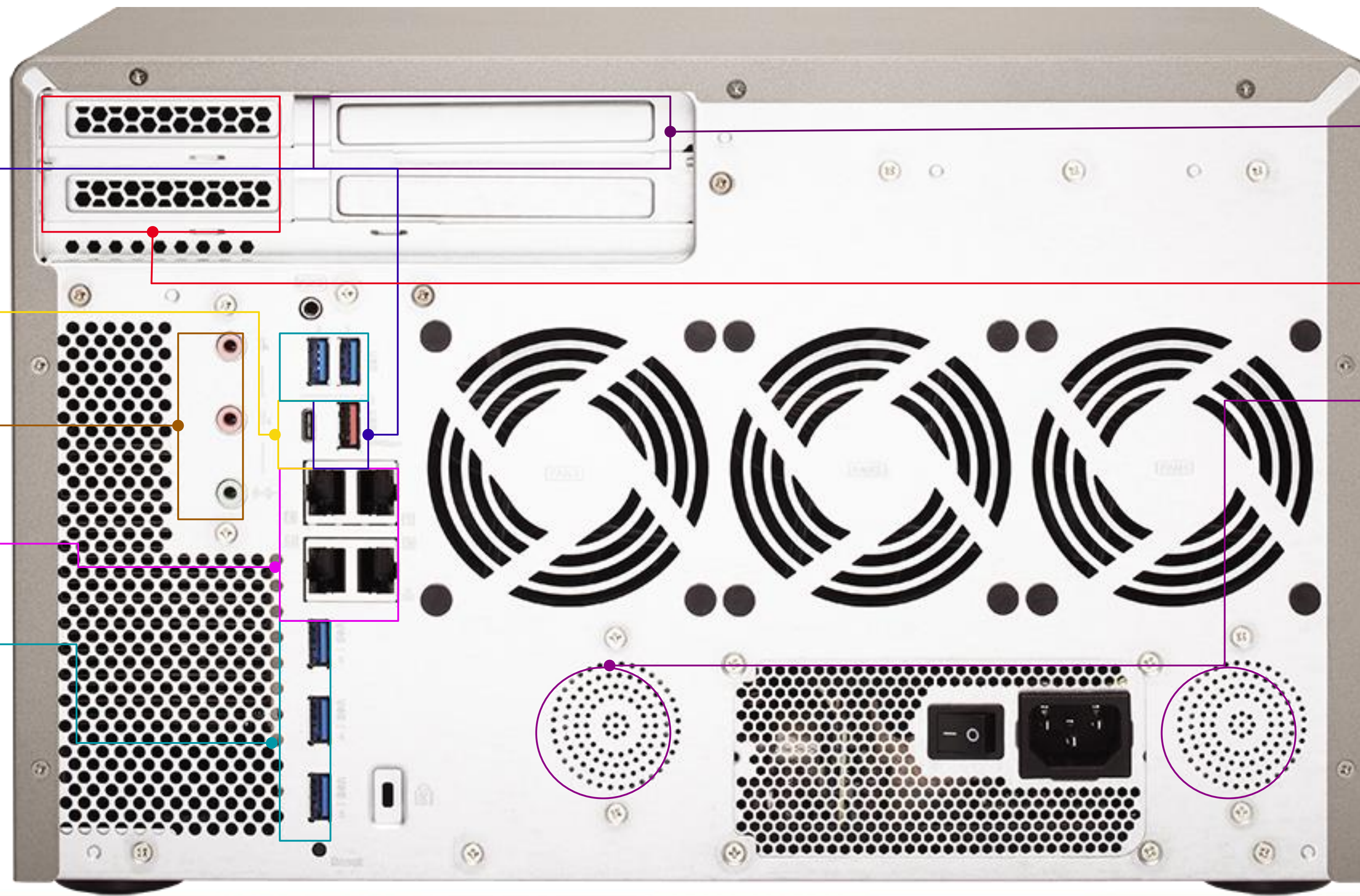
4 x GbE LAN

5 x USB 3.1  
5G Gen 1

1 x PCIe 3.0 x8

1 x PCIe 3.0 x4  
1 x PCIe 2.0 x4

2 x speakers



# Enterprise Storage

QTS

TDS-16489U



ES-1640dc

QES

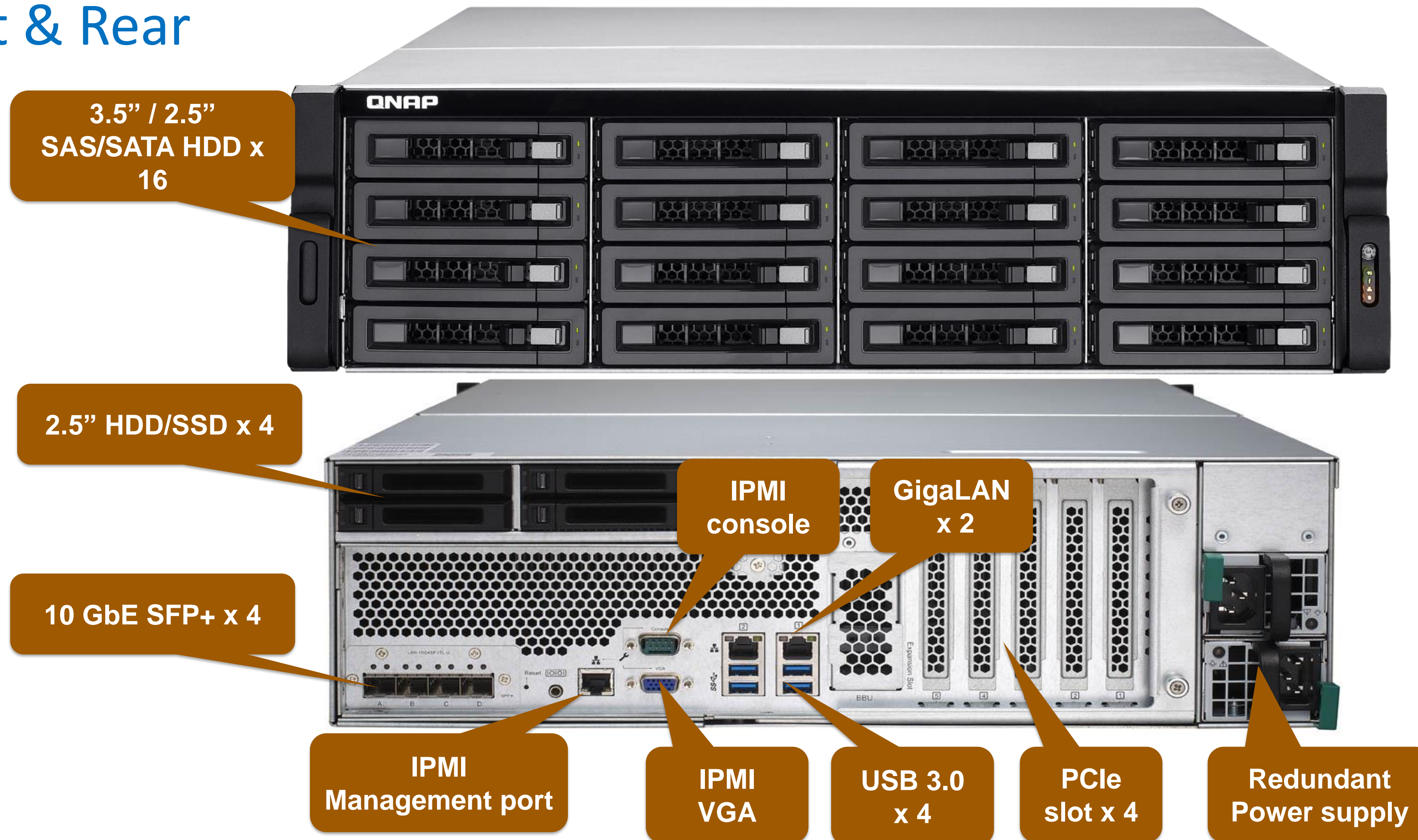


TES-1885U



# TDS-16489U

## Front & Rear



# TDS-16489U



16 x 3.5" HDDs  
NL-SAS / SATA



4 x 2.5" SSD  
for high-speed  
performance



PCIe NVMe SSD  
for high IOPS performance



**Qtier™ - Auto-tiering technology**

# QTS vs QES

Application  
diversity

QTS

QNAP Turbo NAS System

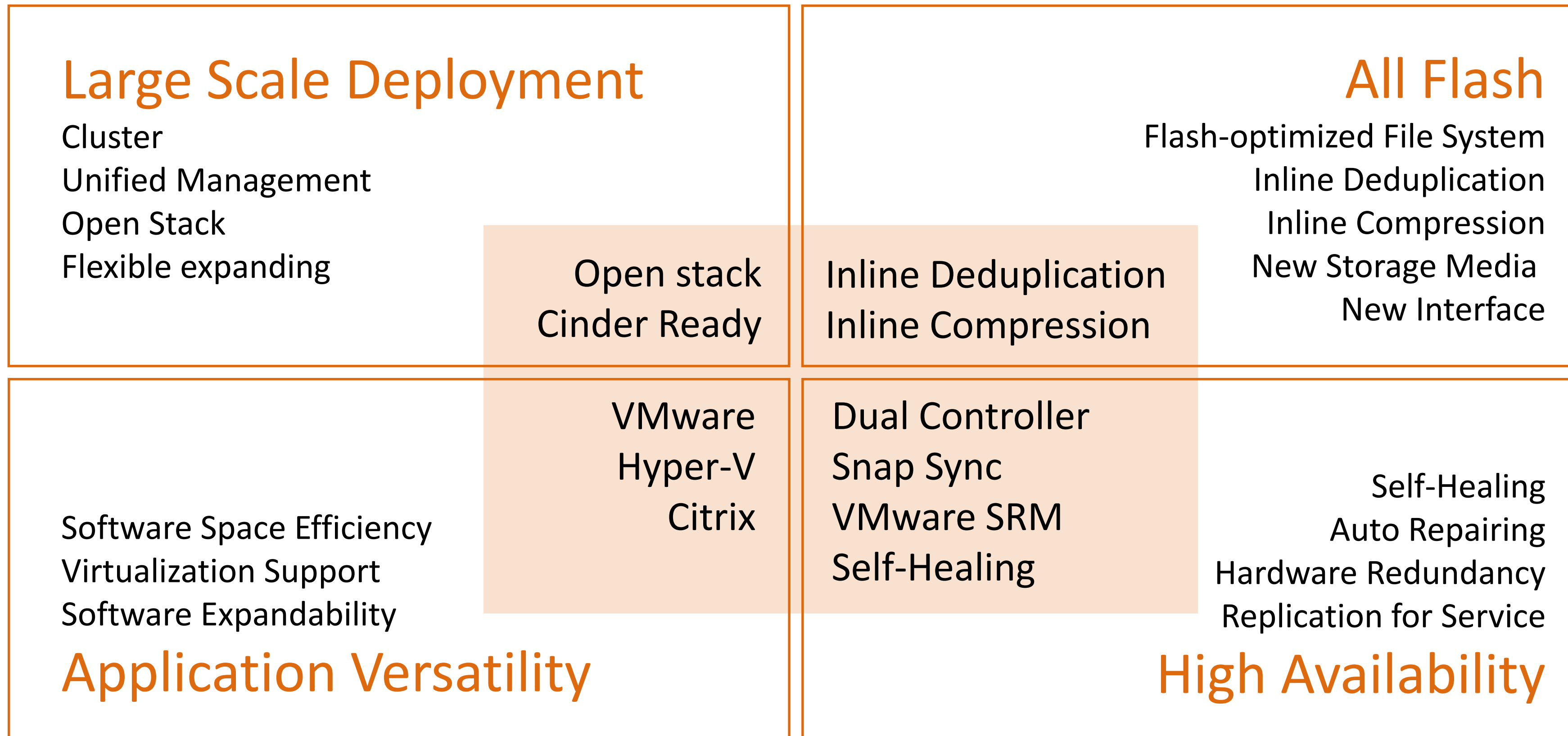
QES

QNAP Enterprise NAS System

Business  
Continuity



# WHY QES



Low ← Requirement for Unit Capacity Cost → High



# Enterprise ZFS NAS

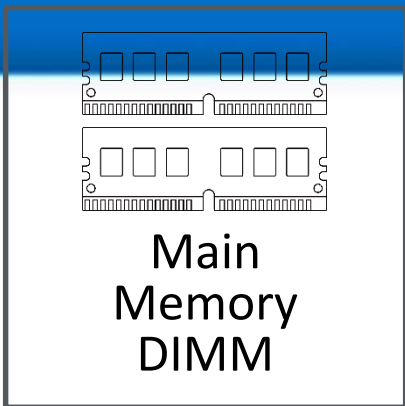


# ES-1640dc



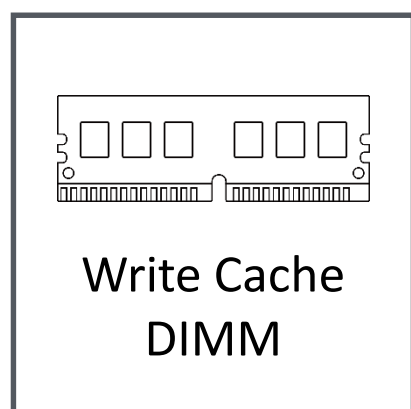
Intel® Xeon® E5-2400 v2 series processor

Provides the performance required by software-defined storage and commercial mission-critical application



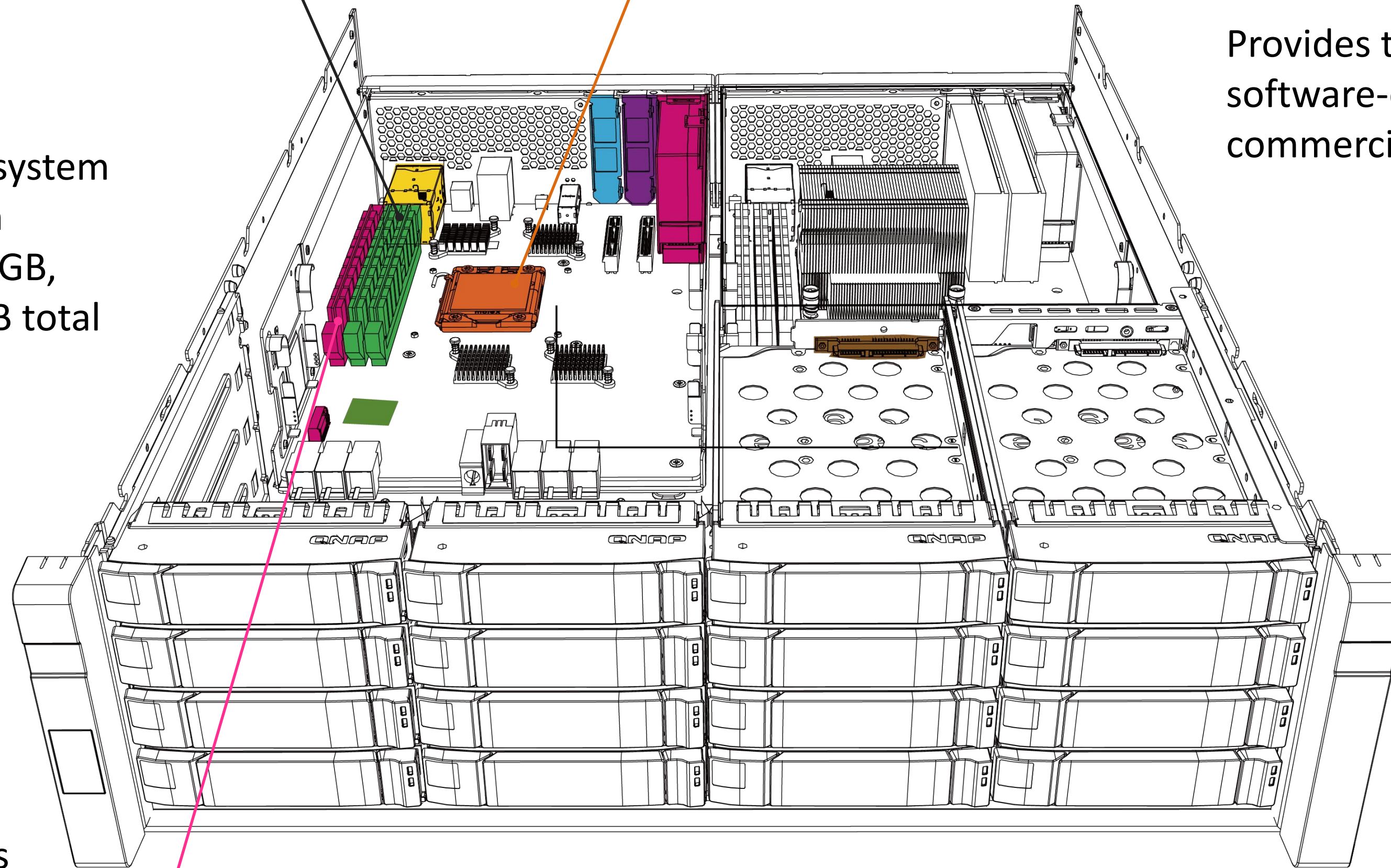
## DDR3 RAM

Dual-channel DDR3 system main memory - each channel supports 16GB, providing up to 32GB total capacity



## DDR3 RAM

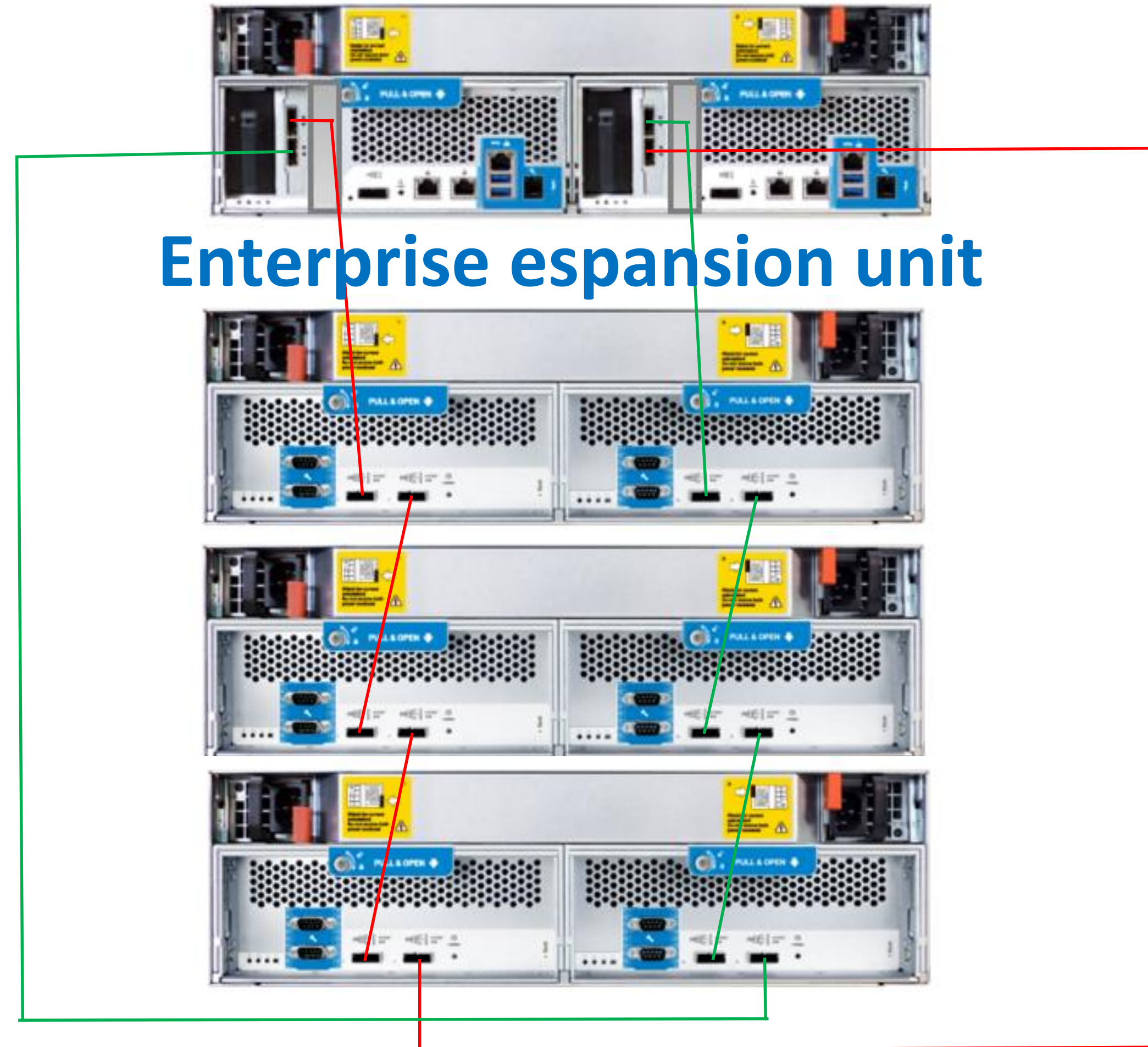
NVRAM dedicated DDR3 memory modules Supports 16GB



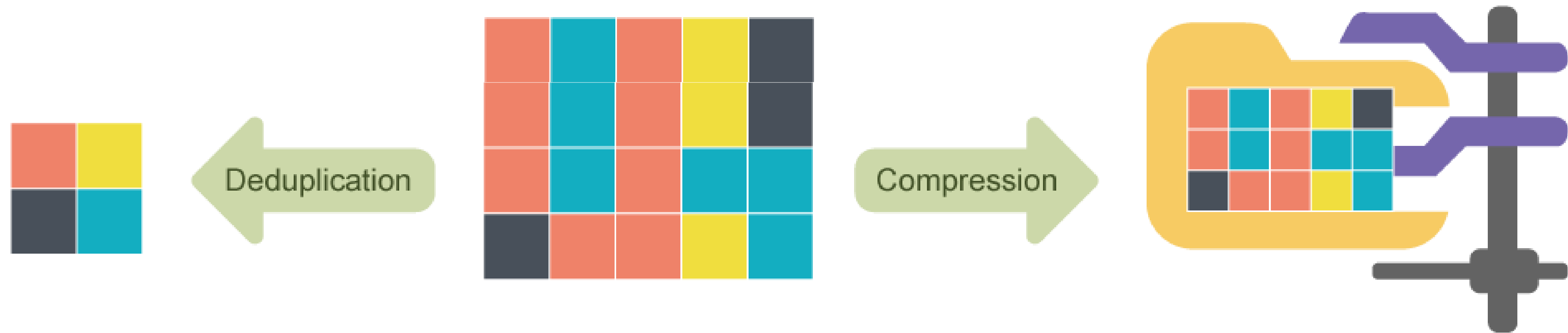
# ES-1640dc + 7 Expansion JBOD

ES NAS

ES JBOD



# Why In line Compression & Deduplication



In-line Deduplication  
removes redundant block

In-line Compression reduces  
the size of the data set

**QNAP**



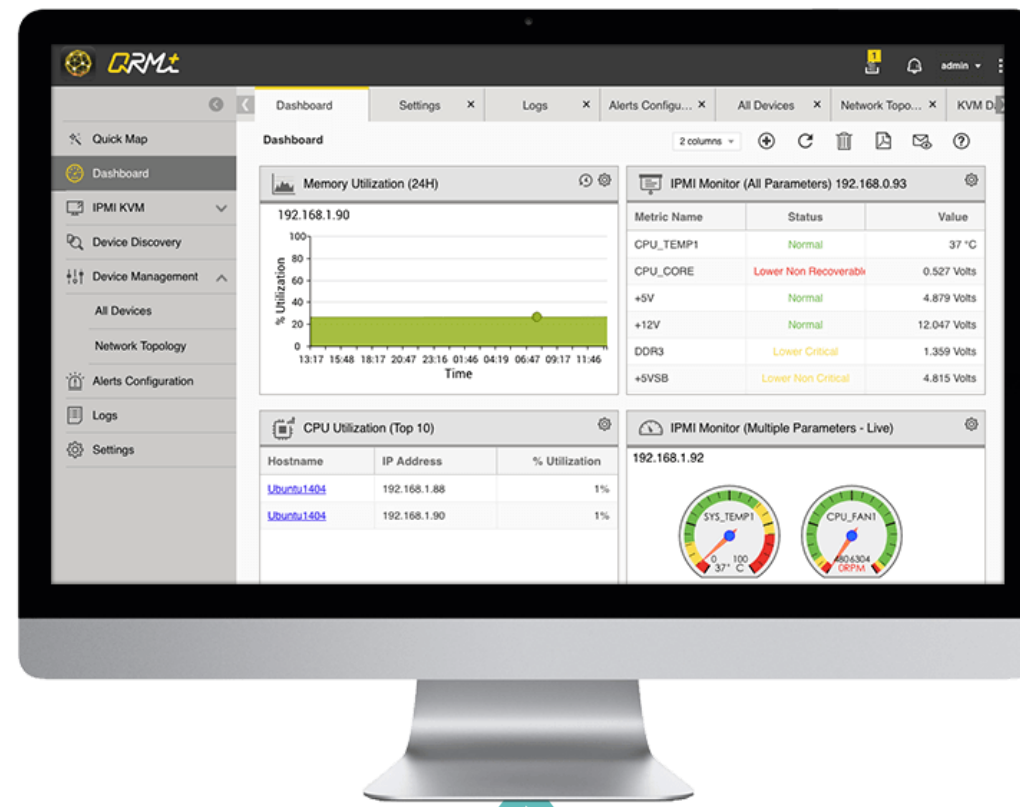
**QRM+**

**Integrated Solution for Remote Server & PC  
management**

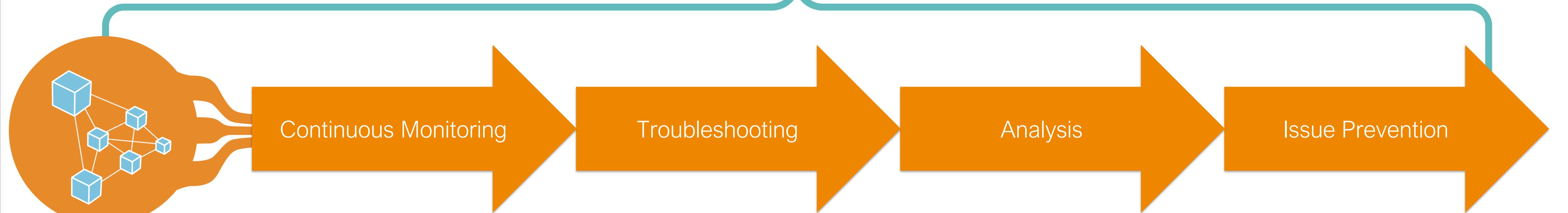
# Introduction to QRM+



# Workflow of QRM+



Comprehensive QRM+™  
Device Monitoring



- ✓ Data collection
- ✓ Dashboard
- ✓ Network topology

- ✓ Support IPMI
- ✓ Web-based remote access

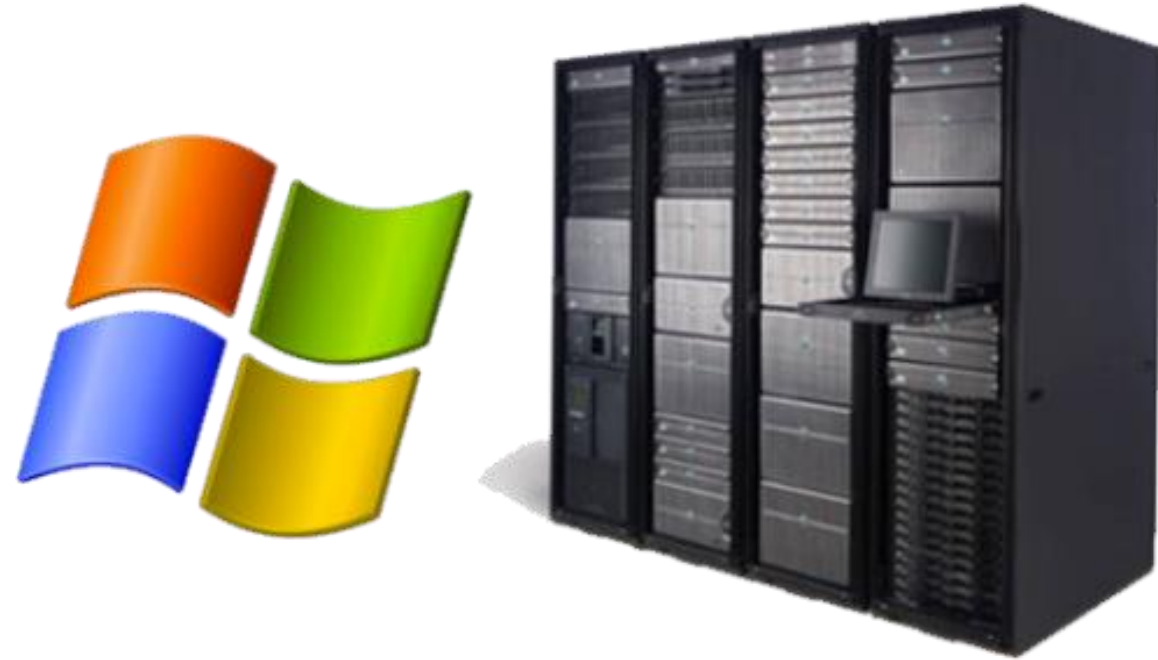
- ✓ Historic data
- ✓ Remote recording and playback

- ✓ Alert and notification
- ✓ Log mgnt.

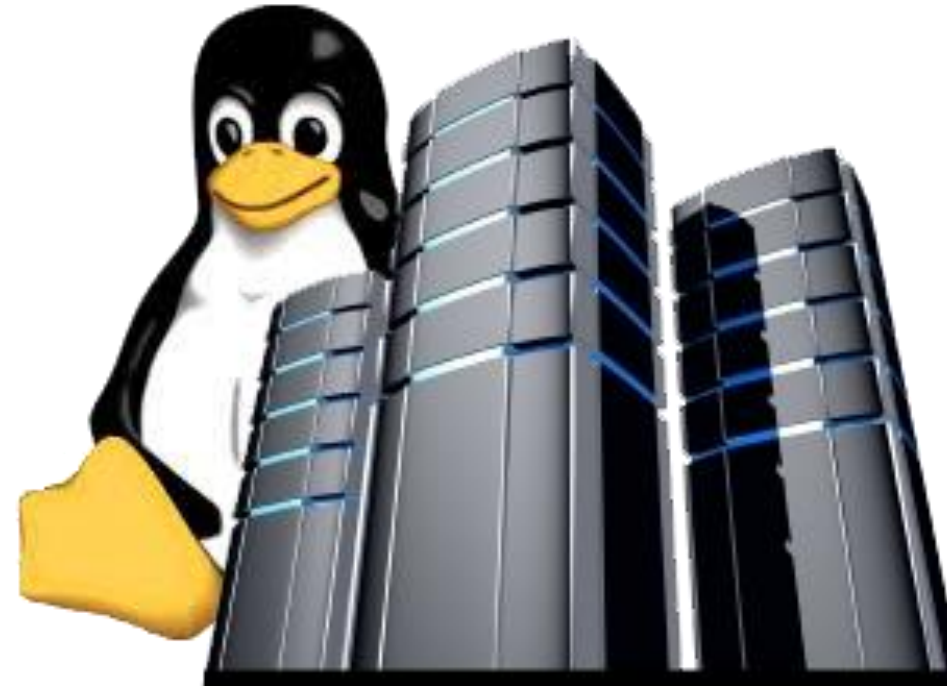




# Management of Different Equipment



- Windows 7, 8, 10
- Windows Server 2003, 2008, 2012
- Windows Vista
- Windows XP
- All platforms



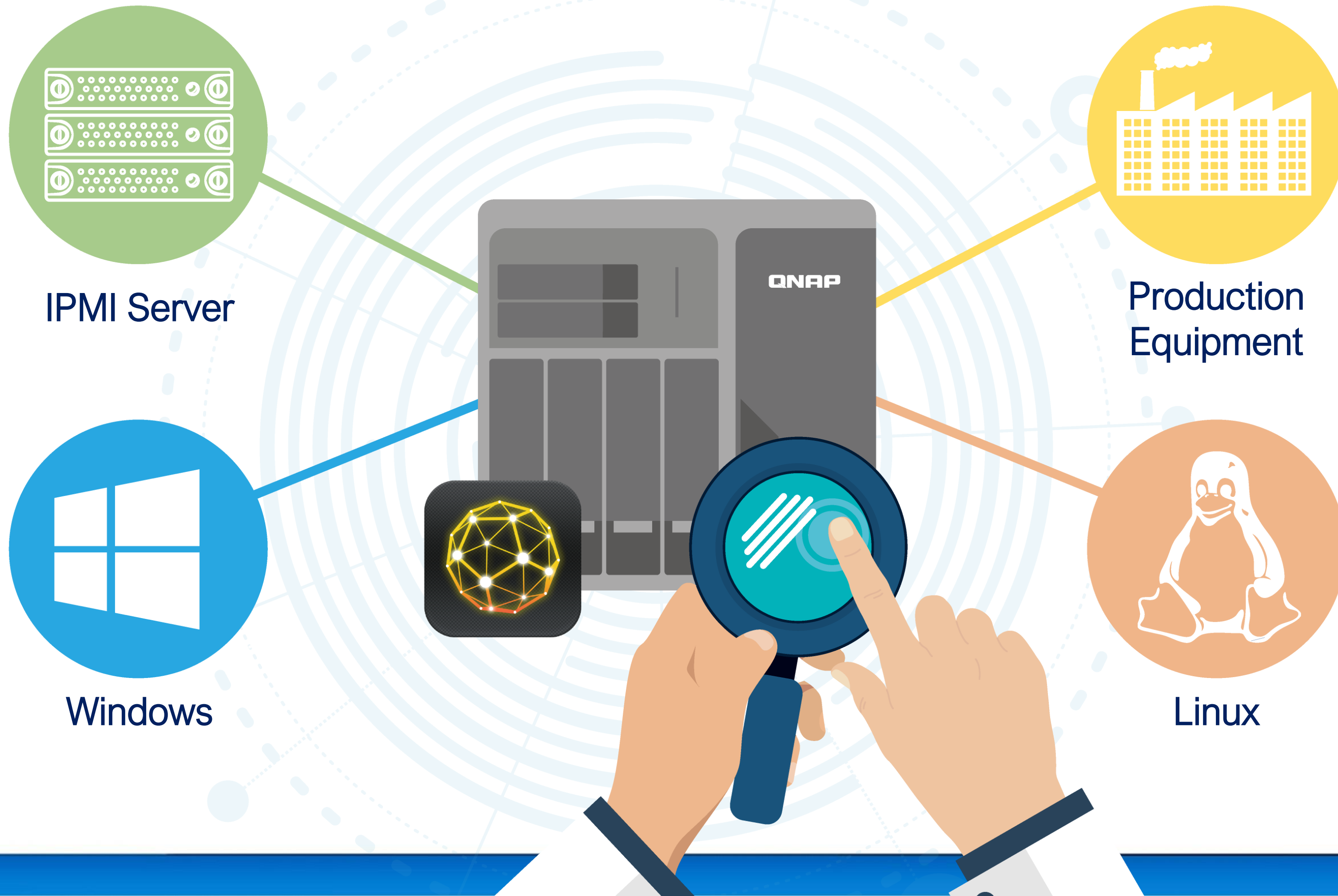
- Ubuntu
- CentOS
- Debian



- Support IPMI 1.5/2.0
- Support KVM over IP
  - ◆ Supermicro IPMI
  - ◆ IEI IPMI



# Device Discovery



---

Discover all QRM+ supported devices with one key-press.

---

# Device Manager- All Devices

The screenshot displays the QNAP QRM+ Device Manager interface. The main window shows a list of managed devices with columns for IP Address, Device Tag, Managed by, Brand, and Operating System. A sidebar on the left provides a smart filter for organizing devices into dynamic groups.

IP Address	Device Tag	Managed by	Brand	Operating System	Device	Monitored
192.168.0.104	HQ 5F	QRMAgent	Bochs	Ubuntu		
192.168.0.102	CN 6F	IPMI	IEI Technology ...	IPMI Man...		
192.168.0.106	SG 3F	QRMAgent	Bochs	Microsoft		
192.168.0.107		QRMAgent	QEMU	Microsoft Windo...		
192.168.0.107		QRMAgent	QEMU	Ubuntu	Device	Monitored
192.168.0.112	US 2F	IPMI	Supermicro	IPMI Manageme...	Device	Monitored
192.168.0.100	US 3F	IPMI	IEI Technology ...	IPMI Manageme...	Device	Monitored

**Smart Filter Sidebar:**

- My Network
  - 192.168.0.0/24 (7)
- Dynamic Groups
  - All (7)
  - IPMI (3)
  - QRMAgent-Windows (2)
  - QRMAgent-Linux (2)
  - Windows Devices (2)
  - Linux Devices (2)
  - Others (0)

After scanning and adding devices, the window shows an overview of your managed devices

Smart filter to change the list of managed devices

# Dashboard – Simplified!

The screenshot displays the QNAP QRM+ dashboard with several widgets:

- Device State Change Log:** A table listing device hostnames, IP addresses, states (UP/DOWN), and state change times.
- Server Health Overview:** A gauge chart showing the overall health of the server, with a legend indicating 4 On, 2 Off, and 0 Not reachable.
- CPU Utilization (Live):** A line graph showing CPU utilization over time for Ubuntu1404.
- IPMI Monitor (All Parameters) 192.168.0.102:** A table showing various hardware metrics and their status.
- IPMI Monitor (Multiple Parameters - Live):** A widget displaying real-time fan speed (SYS\_FAN1) and temperature (SYS\_TEMP1) gauges.
- IPMI Monitor (All Parameters) 192.168.0.112:** A table showing hardware metrics for another server.
- Device Memory Information (Live):** A widget showing total and available memory for Ubuntu1404.
- Shutdown Devices (Recent 10):** A table listing recently shutdown devices, including their hostnames, IP addresses, and shutdown times.

## Support 20+ widgets:

- Device Health Condition Overview - Status Change Log
- IPMI & QRMAgent Monitor (all parameters)
- Top 10 List
- Current/Historical Statistics
- Update remote screenshot periodically
- Supports remote desktop access for troubleshooting



# Device Down???

The screenshot shows the QRM+ Network Topology interface. On the left, a sidebar lists 'My Network' (192.168.0.0/24) and 'Dynamic Groups' including IPMI (3), QRMAgent-Windows (2), QRMAgent-Linux (2), Windows Devices (2), Linux Devices (2), and Others (0). The main area displays a network diagram with a central router (192.168.0.0/24) connected to several devices. A tooltip for the IPMI device at 192.168.0.100 is shown, containing the following information:

- IP Address: 192.168.0.100
- Hostname: 192.168.0.100
- Device Tag: US 3F

Other devices in the network include QRM-Win7SP1 (192.168.0.106), ubuntu (192.168.0.107), DESKTOP-2JHIVQA (192.168.0.107), and another IPMI device (192.168.0.112).

Double-click to:

- Check more details
- Access remotely

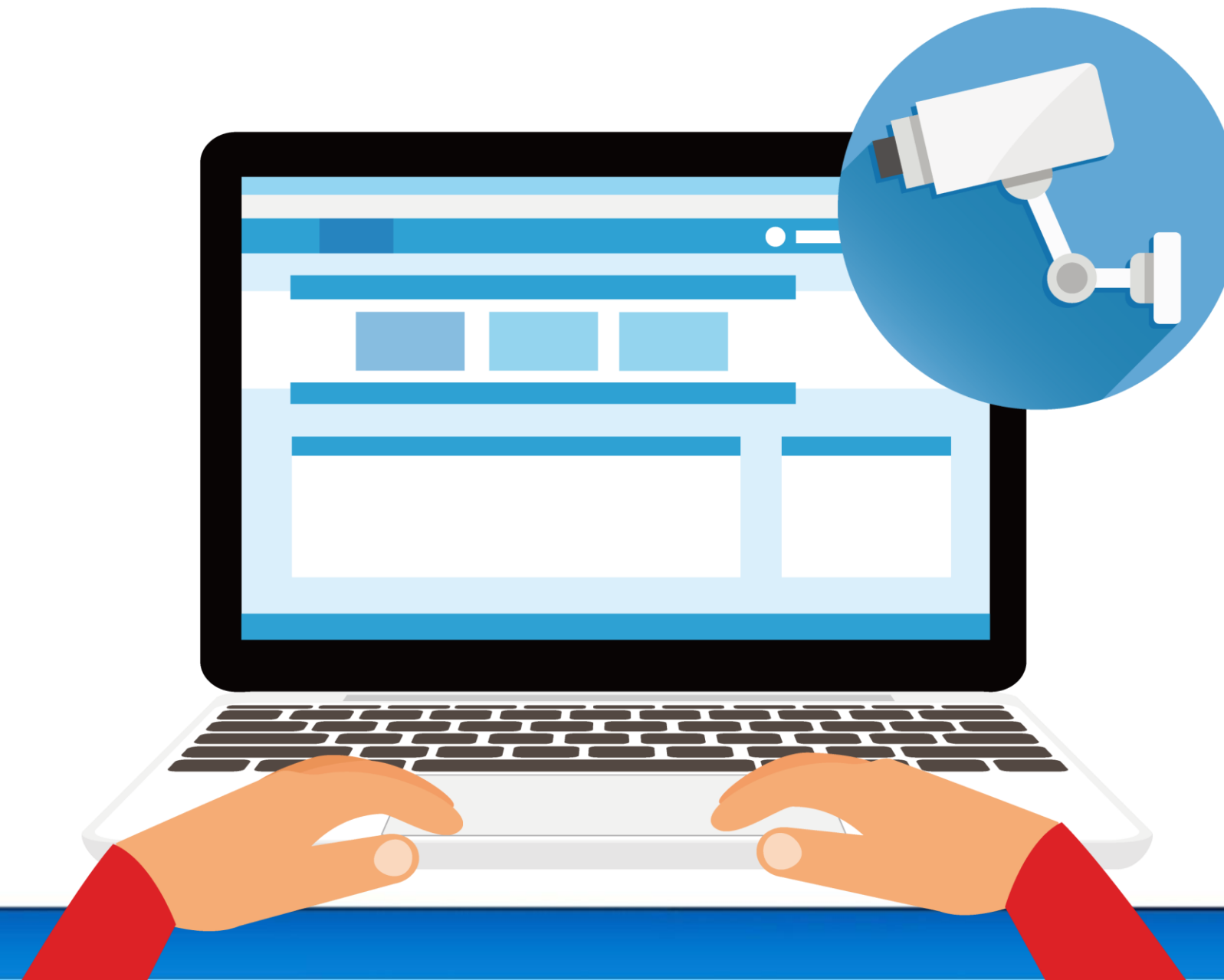
Clearly visualize your networks



# Track all Actions – **GDPR 2018**

Uses “**KVM over IP**” technology which allows:

- Capture the **K**eyboard, **V**ideo and **M**ouse signals and allow to be controlled **over IP** connection
- Simultaneous viewing and recording of remote desktop
- Check for human error



# 5 passi per adeguarsi alla GDPR

1. Fare una **valutazione puntuale** di tutti i trattamenti che si effettuano in azienda. È necessario individuare tutti i processi che sottendono all'utilizzo del dato e all'accesso a questo.
2. Effettuare un'analisi del rischio.
3. Verificare come si gestiscono gli accessi: solo le persone autorizzate devono poter accedere e solo ai dati che le riguardano. Gestire il ciclo di vita delle utenze, anche quando i dipendenti cambiano mansione o lasciano l'azienda, rivedendo periodicamente i permessi.
4. Centralizzare la gestione del dato per aumentarne il controllo, soprattutto in caso di transito verso l'esterno o cessione a terzi, dotandosi di sistemi adeguati. È importante implementare soluzioni che traccino un quadro complessivo di tutti gli spostamenti e che tengano memoria di quali sono le abilitazioni delle persone.
5. Data protection by design, security by design: la protezione delle informazioni deve essere elemento fondante di tutto ciò che l'azienda andrà a realizzare e progettare. I **requisiti di sicurezza** devono essere gestiti come il business, in fase di sviluppo diventano una componente architettonica progettata insieme al software già dalla nascita.

A che punto è la tua azienda ?



# Alert / Event Management

- Alerts sent out before problems occur, by identifying possible factors that may lead to problems
- Supports grouping of alerts to send to the personnel responsible

Supports simultaneous alerts for IPMI & QRMAgent

Easy to manage all alerts

Alerts Configuration					
Alert Status	Alert Name	Alert Type	Monitored value	Condition	
<input type="checkbox"/> Disabled	win alert	QRM+ Alerts	Memory Utilization	> 5%	
<input type="checkbox"/> Enabled	ipmi alert	IPMI Events	N/A	N/A	192.168.0.102
<input type="checkbox"/> Enabled	ipmi alert2	IPMI Events	N/A	N/A	N/A
<input checked="" type="checkbox"/> Enabled	ubunut disk	QRM+ Alerts	Disk Utilization	> 5%	192.168.0.104
<input type="checkbox"/> Enabled	win disk 2	QRM+ Alerts	Disk Utilization	> 5%	192.168.0.107
<input type="checkbox"/> Enabled	ubunut disk	QRM+ Alerts	Disk Utilization	> 5%	192.168.0.104
<input type="checkbox"/> Enabled	win mem alert	QRM+ Alerts	Memory Utilization	> 10%	192.168.0.106

Notifications

QRM+ Alerts | IPMI Events

**win mem alert**  
192.168.0.106 (Memory Utilization > 10%)  
5 days ago

**win disk alert**  
192.168.0.106 (Disk Utilization > 5%)  
5 days ago





# Support IEI TANK

- IEI and QNAP have a comprehensive selection of NAS solutions to meet a wide range of user requirements.



**iei**  
IEI Integration Corp.

**BIG  
THiNK**

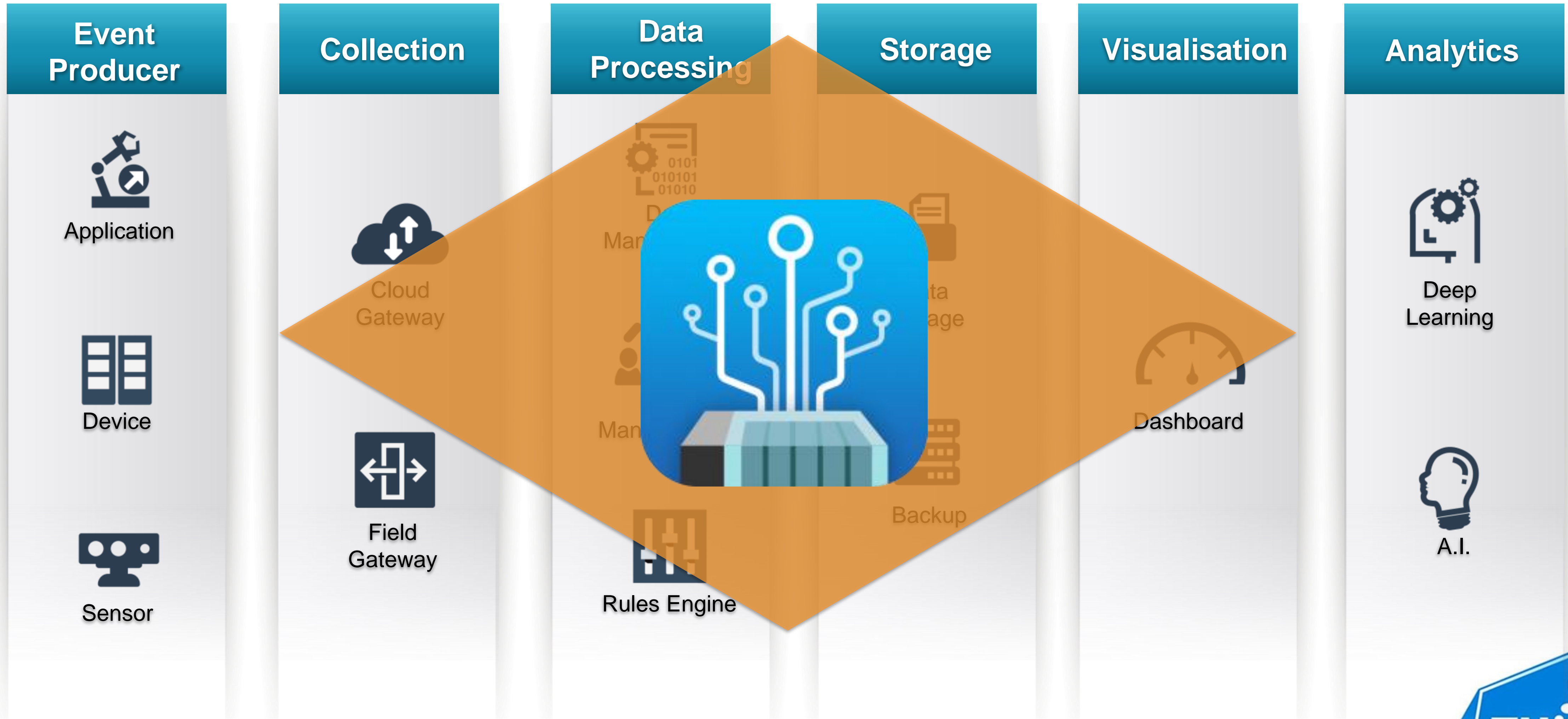
**QNAP**



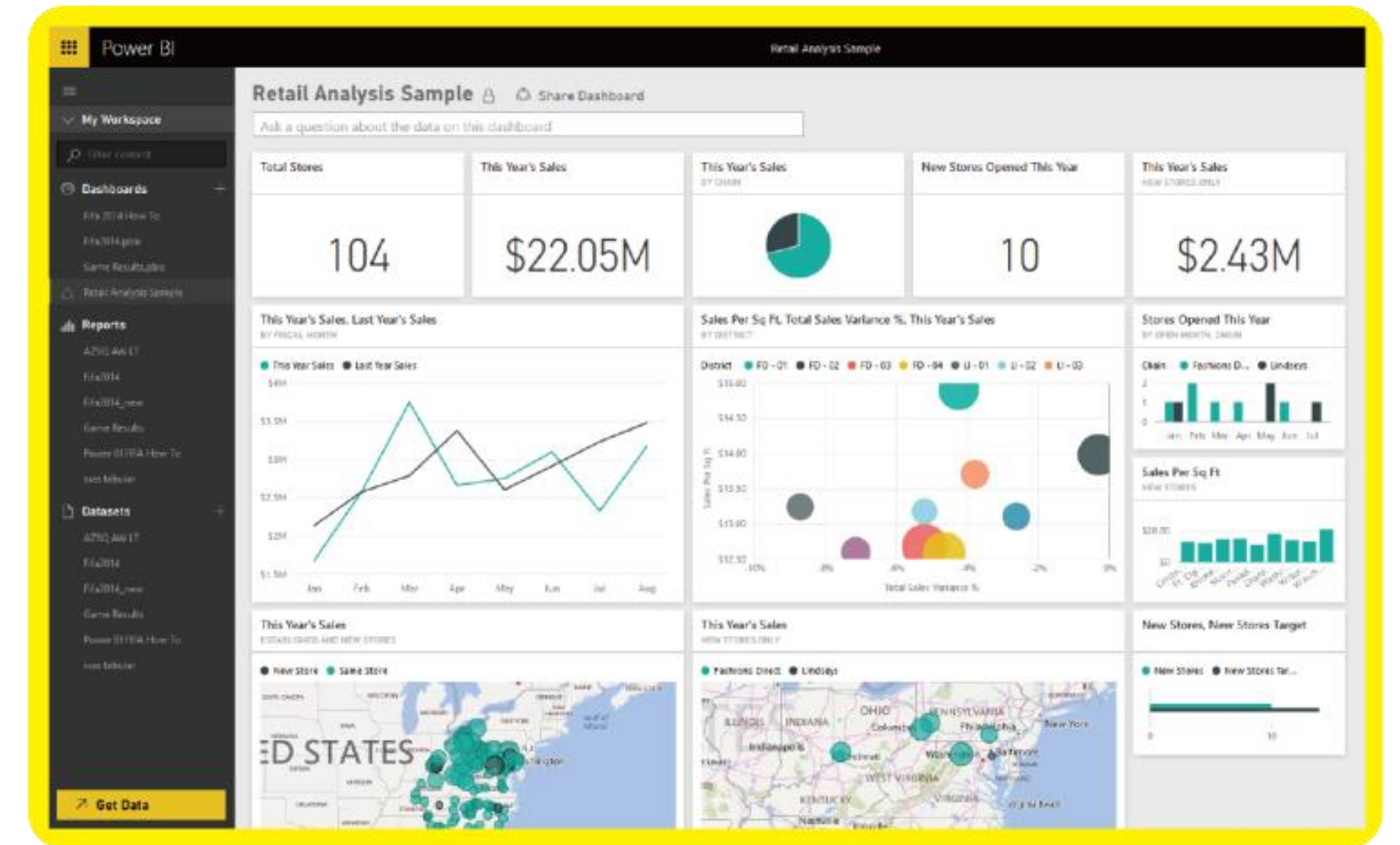
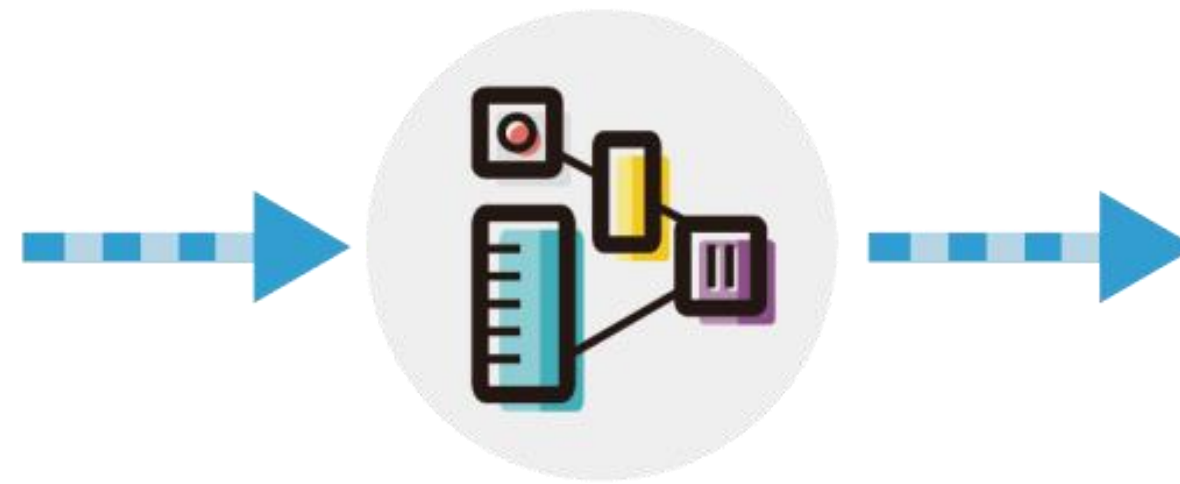
**QIoT Lite**

**Integrated Intelligent IoT Platform**

# QIoT Suite Lite



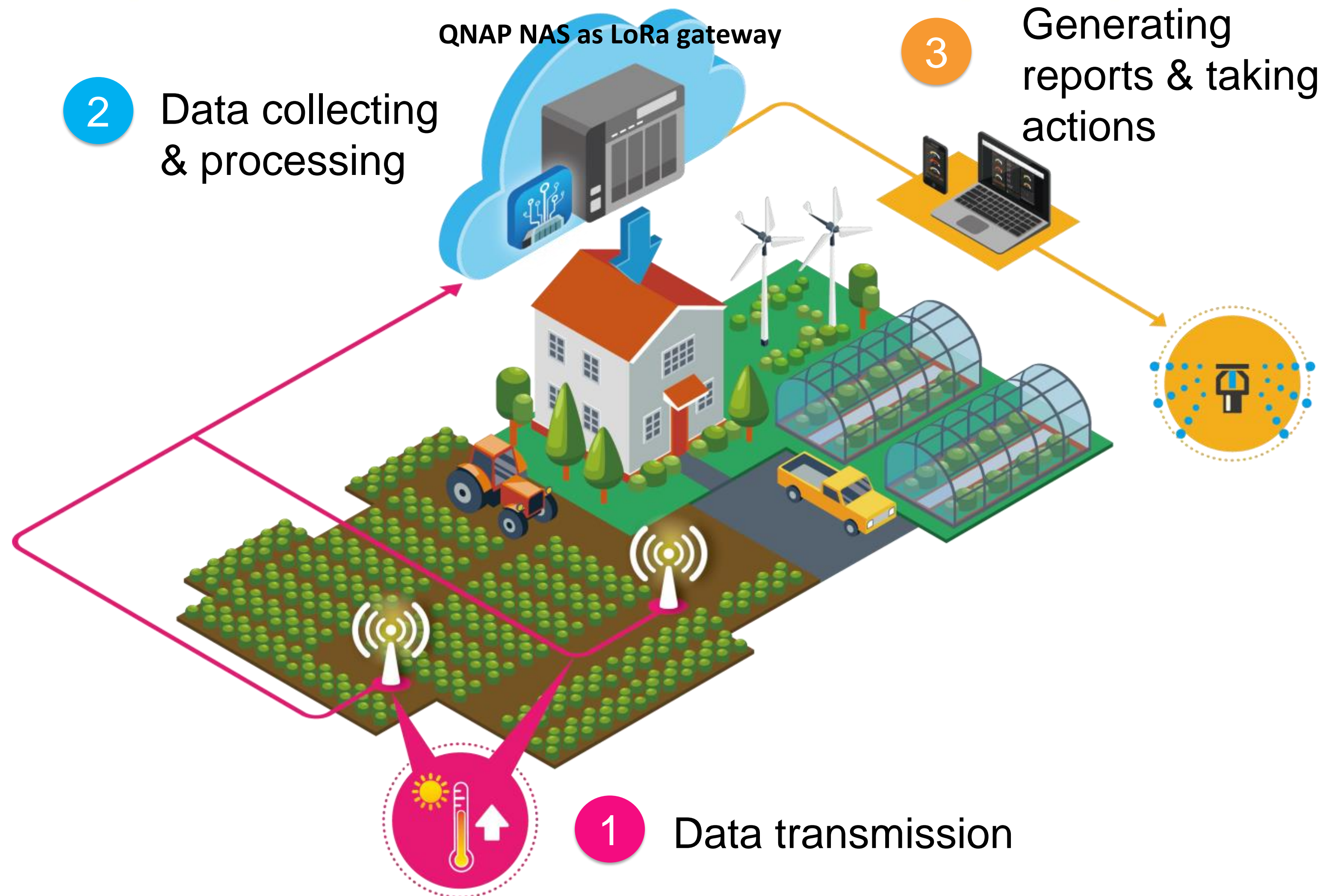
# Information could also link with analytic tool



Export data to analytical tools such as Power BI.



# Farm project



## Support LoRa technology

- Data transmission distance can reach up to 20 km.

## Analyzing Data

- Action can be take in realtime.
- Operation efficiency.

## Visualizing reports

- Optimize farm management & resource usage.

# Sensor



PH sensor

Conductivity sensor

LoRa chipset

UV sensor

Humidity & Temperature sensor



QIoT Suite Lite

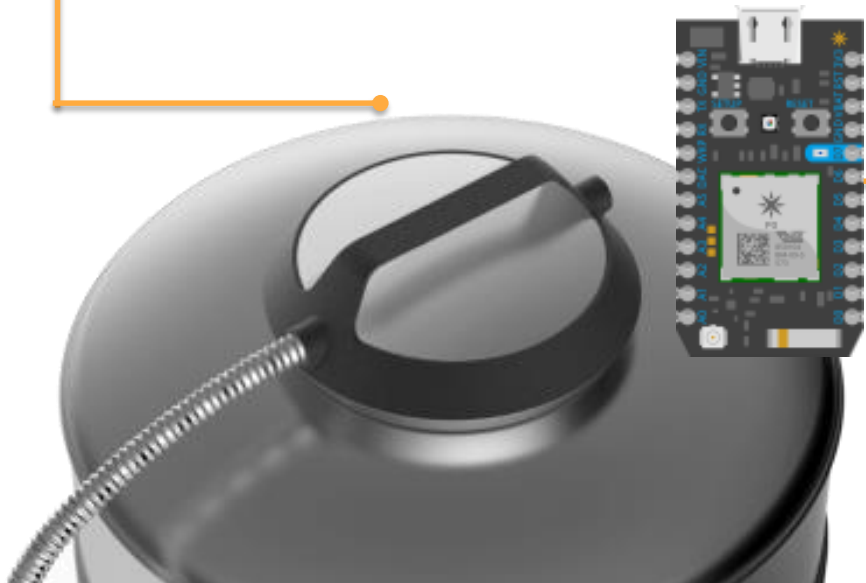
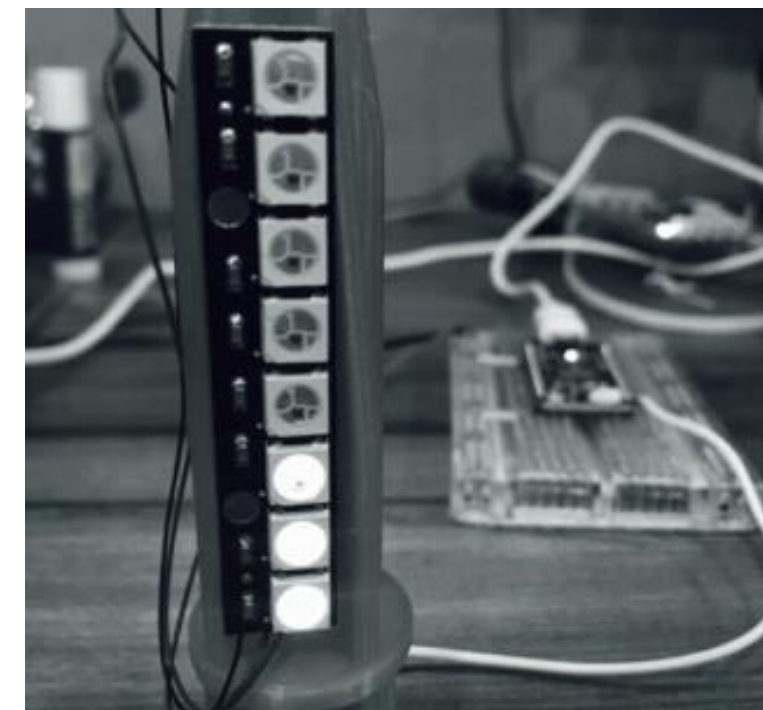
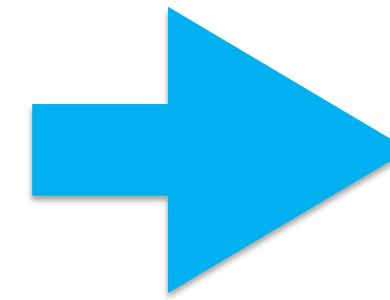


User Management

Device Management

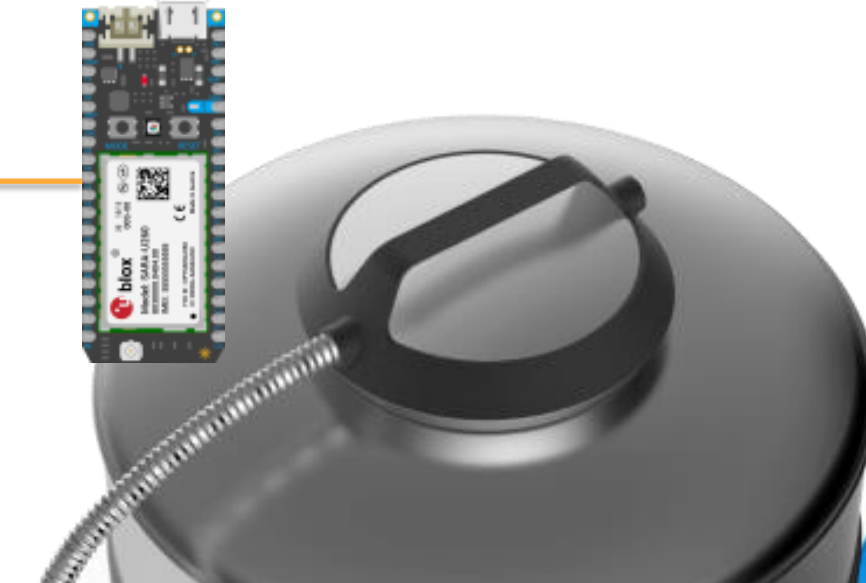
Rules Engine

Dashboard

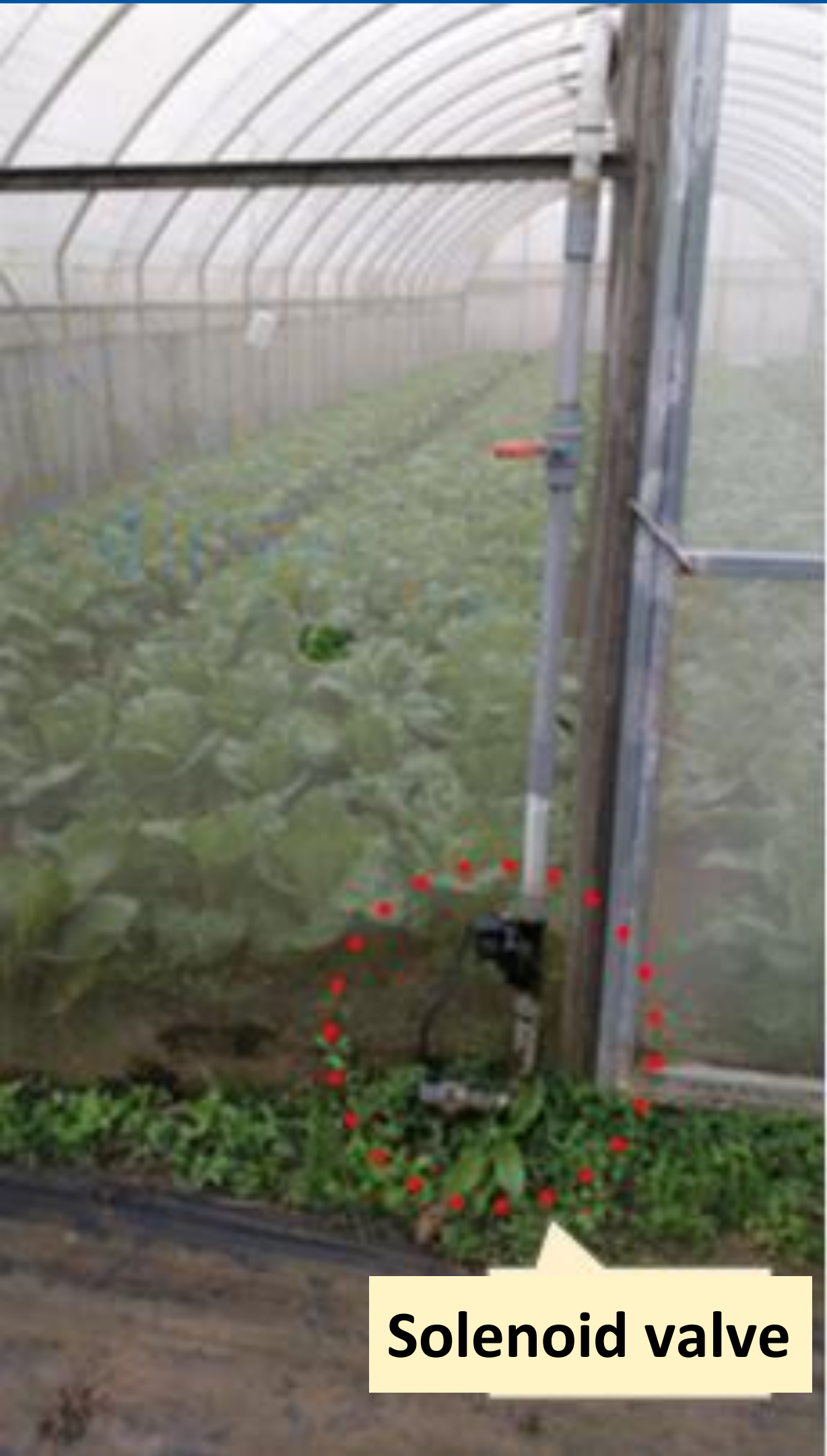


MQTT (WiFi)

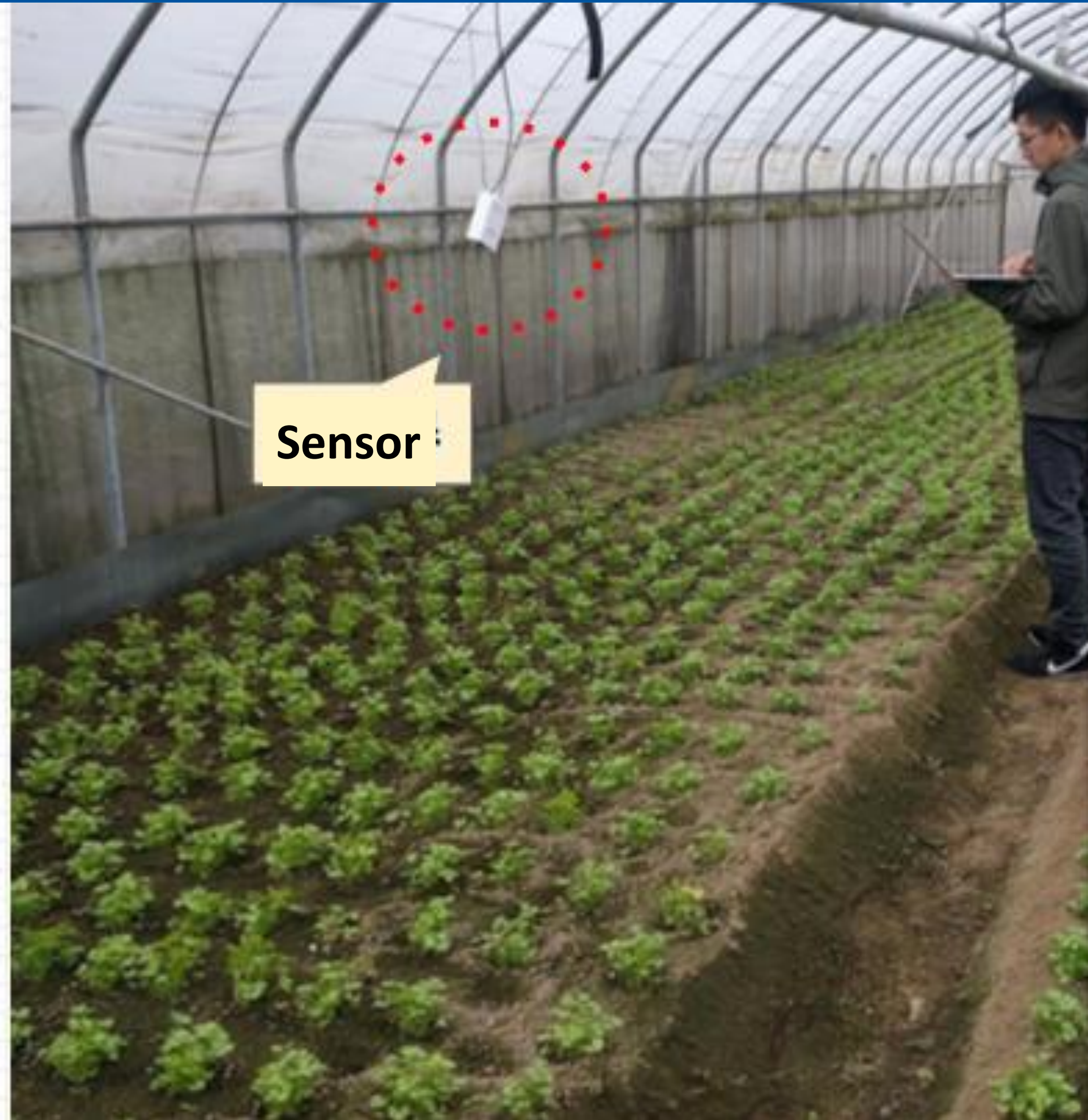
MQTT (3G)



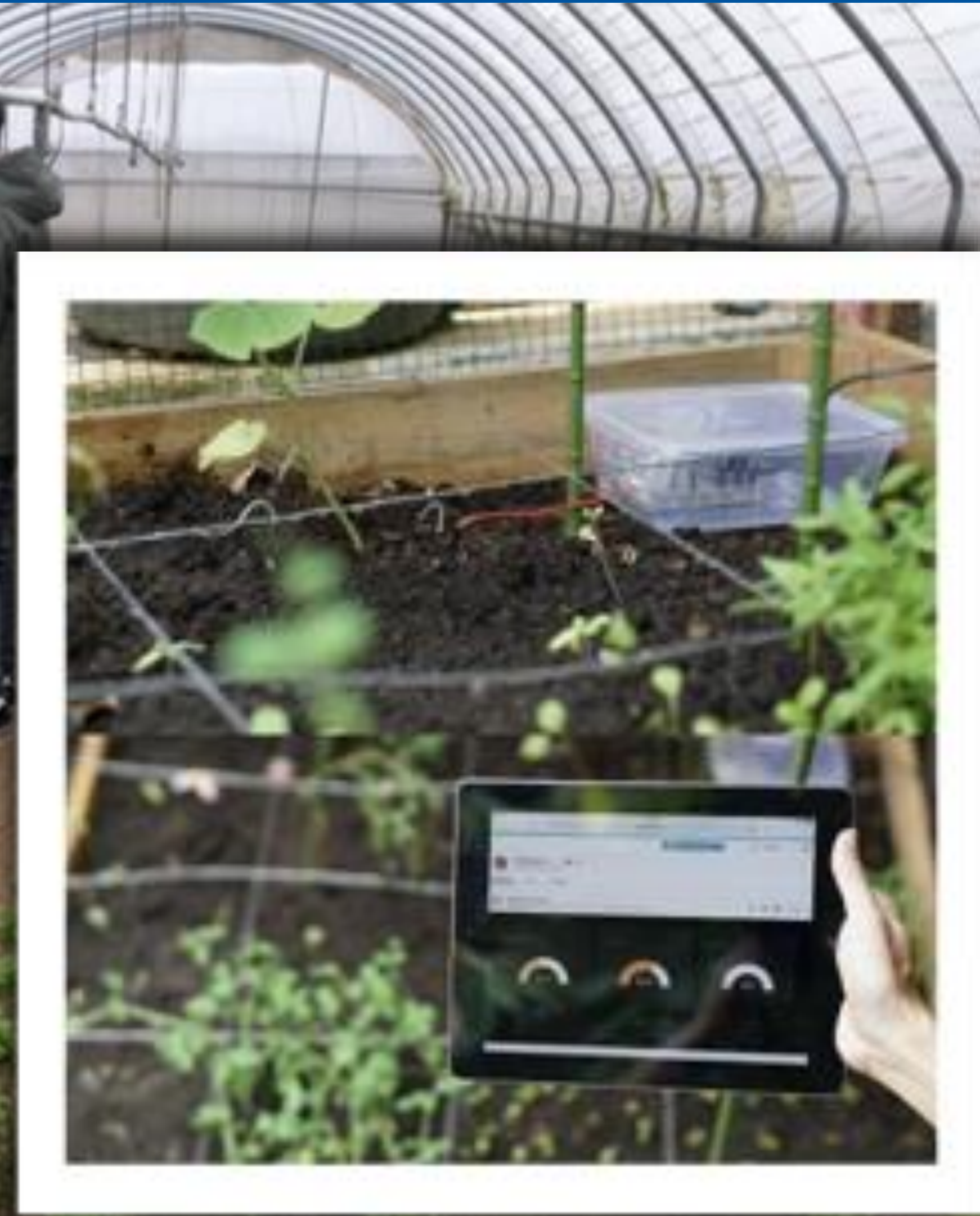
# Installation



Solenoid valve



Sensor



**QNAP**



# AFOBOT

Smart Artificial Assistant at home, office,  
retail, hospital...



# SW & HW Integration Ability



# Personal Assistant



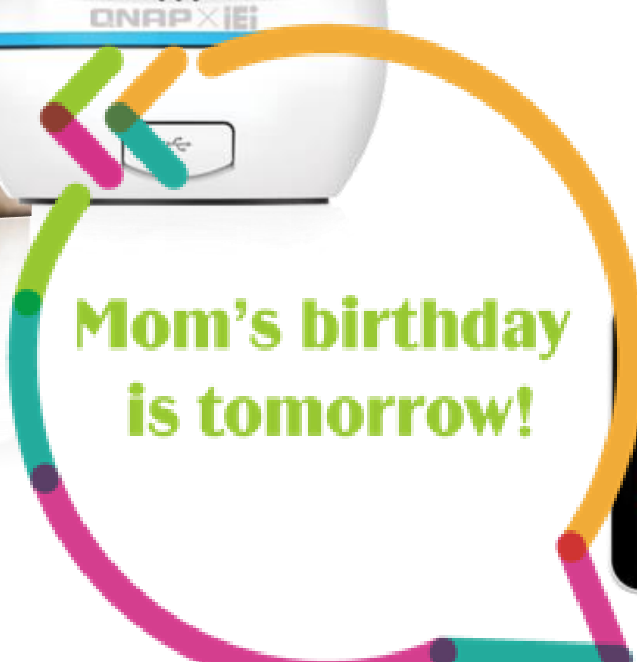
## Alarm, Timer setting

Voice command to AfoBot to set alarm or timer



## Picture taking

Voice command to ask AfoBot taking pictures for all party participants



## TTS reminder (Coming soon)

text in mobile App calendar function then AfoBot will speech out at appointed time



## Kids learning



# AfoBot for Retail



- A new interaction way for retail sales
- A new way for customer support

- Able to access from public (public mode)
- E-Commerce for on-line items
- Interactive advertising



# AfoBot for Health Care



- Doctors can observe patients' status easily
- Doctors-on-leave can join in-time when urgency



- Family can connect and accompany any time
- Voice call-for-help



# AfoBot for Kindergarten



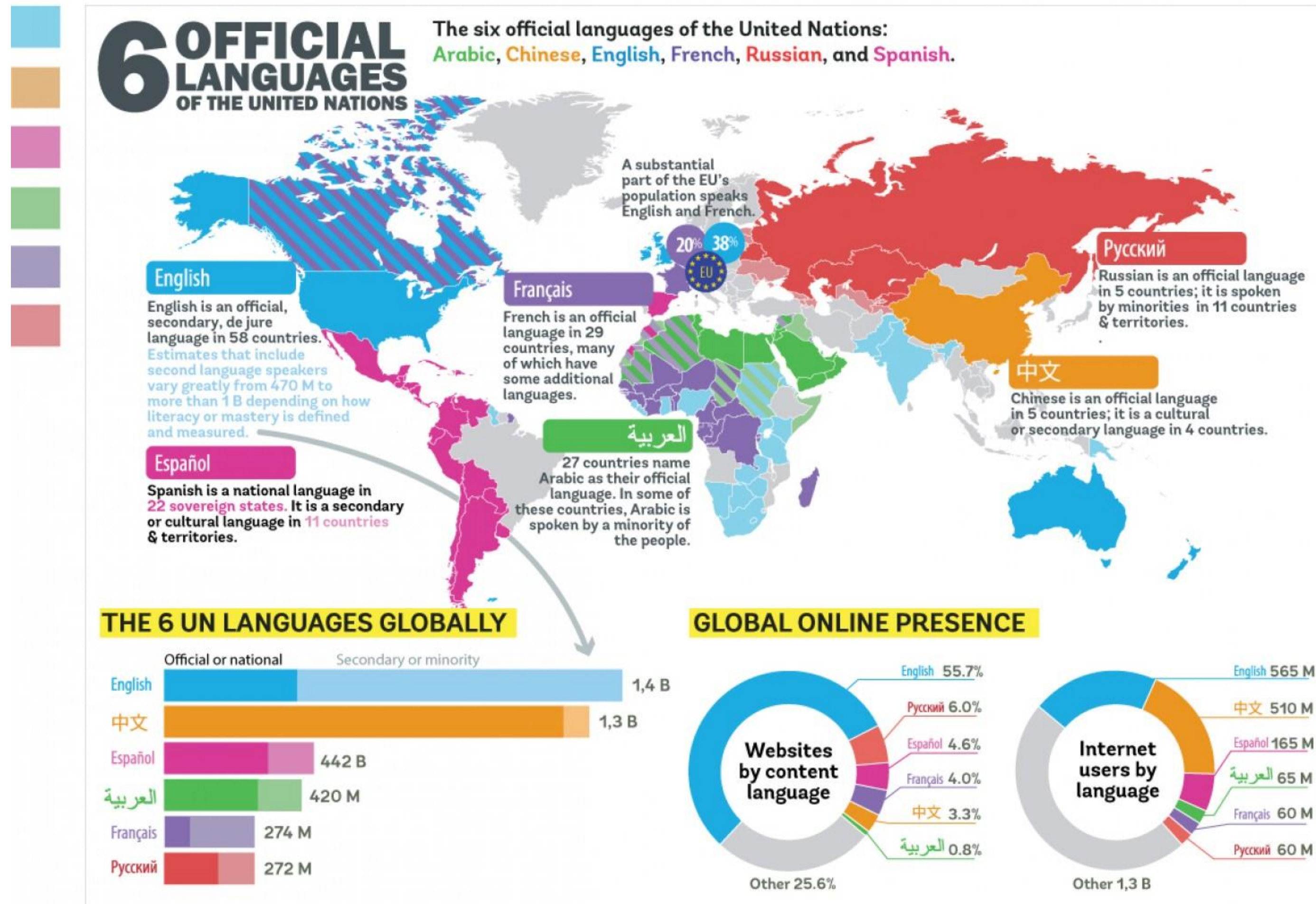
- Watch your kids in Kindergarten anytime
- When kids miss Mom, they can call out



- Digital contents of education
- Listening Music and songs any time
- Story telling



# Launch Plan



Sources: W3Tech, national statistics data, Wikipedia



# Supporto\* & Servizi

[helpdesk.qnap.com](http://helpdesk.qnap.com)



- **Extended Warranty Next (EXT)**
- **Advanced Replacement (ARP)**
- **On Site (Enterprise) (ON)**

\*High-class hardware design & quality, defect rate < 0.5%



# Servizi Warranty, ADR e On-site

Estensioni di garanzia a 5 anni  
**EXT1 – EXT2 – EXT3**  
dalla serie x53A alla serie x71

Advanced Replacement 3 o 5 anni  
**ARP3 – ARP5**  
dalla serie x63 e 71 tower alla serie x80 SAS

Onsite service 1, 3 o 5 anni  
**ON1 – ON3 – ON5**  
Solo sulla serie Enterprise ES - TDS - TES (dischi compresi)





# Ext, Arp, On



**QNAP Systems, Inc.**  
2F., No.22, Zhongxing Rd., Xizhi Dist.,  
New Taipei City 221, Taiwan  
TEL:886-2-2641-2000  
FAX:886-2-2641-0555



Reference Number: E217758  
Part Number: EXT2-TS-453A  
Model Number: TS-453A  
Serial Number: Q16C14892  
Date of Purchase: 2017-05-15  
Expiry Date: 2021-05-15  
Distributor/Dealer: \_\_\_\_\_

Dear Valued Customer,

Thank you for choosing QNAP Product! This certification shall serve as a proof of purchase of 2-Year Extended Warranty from QNAP Systems, Inc.

This 2-Year Extended Warranty package covers:

- Repair cost: QNAP shall provide free repair service to the Buyer for Under-Warranty RMA service.
- Shipment cost: The Buyer shall pay the freight for sending the product to QNAP for repair service. QNAP shall pay the shipping cost required to return the product to the Buyer.



**QNAP Systems, Inc.**  
Address: 2F., No.22, Zhongxing Rd., Xizhi Dist.,  
New Taipei City 221, Taiwan (R.O.C.)  
TEL: +886-2-2641-2000  
FAX: +886-2-2641-0555



Reference Number: INV#E213630  
Model Number: TES-1885U-D1531-32GR  
Serial Number: Q16AI00146  
Customer name: \_\_\_\_\_  
Date of Purchase: 2017-02-08  
Expiry Date: 2022-02-08  
Customer Email: \_\_\_\_\_  
Country: Italy

Dear Valued Customer,

Thank you for purchasing QNAP advanced replacement service. This certification shall serve as a proof of purchase for the 5-Year Advanced Replacement from QNAP Systems, Inc.

The following are the terms and conditions of the advanced replacement service:



**QNAP SYSTEMS, INC.**

TEL: +886-2-2641-2000 FAX: +886-2-2641-0555  
Address: 3F., No.22, Zhongxing Rd., Xizhi Dist.,  
New Taipei City 221, Taiwan (R.O.C.)  
www.qnap.com



Reference Number: E216916  
Part Number: ON3-GOLD-4H-7X24-ES-1640DC-IT  
Model Number: ES1640dc-v2-E5-96G-EU  
Serial Number: Q173117112  
Date of Purchase: 2017-05-05  
Expiry Date: 2020-05-04  
Distributor/Dealer: \_\_\_\_\_

**SILVER-NBD-5x8**

- Intervention time: On-site/Remote within next working day after the assistance call log has taken place.
- Opening and management of Call logs: regular working hours (Mon – Fri, 9 - 18, national holidays are excluded).
- Recall Time: in one hour. Repair Time: not defined

**GOLD-4H-5x8**

- Intervention time: On-site/Remote within 4 hours after the assistance call log has taken place.
- Opening and management of Call logs: regular working hours (Mon – Fri, 9 - 18, national holidays are excluded).
- Recall Time: generally immediate and not more than 30 minutes. Repair time: not defined

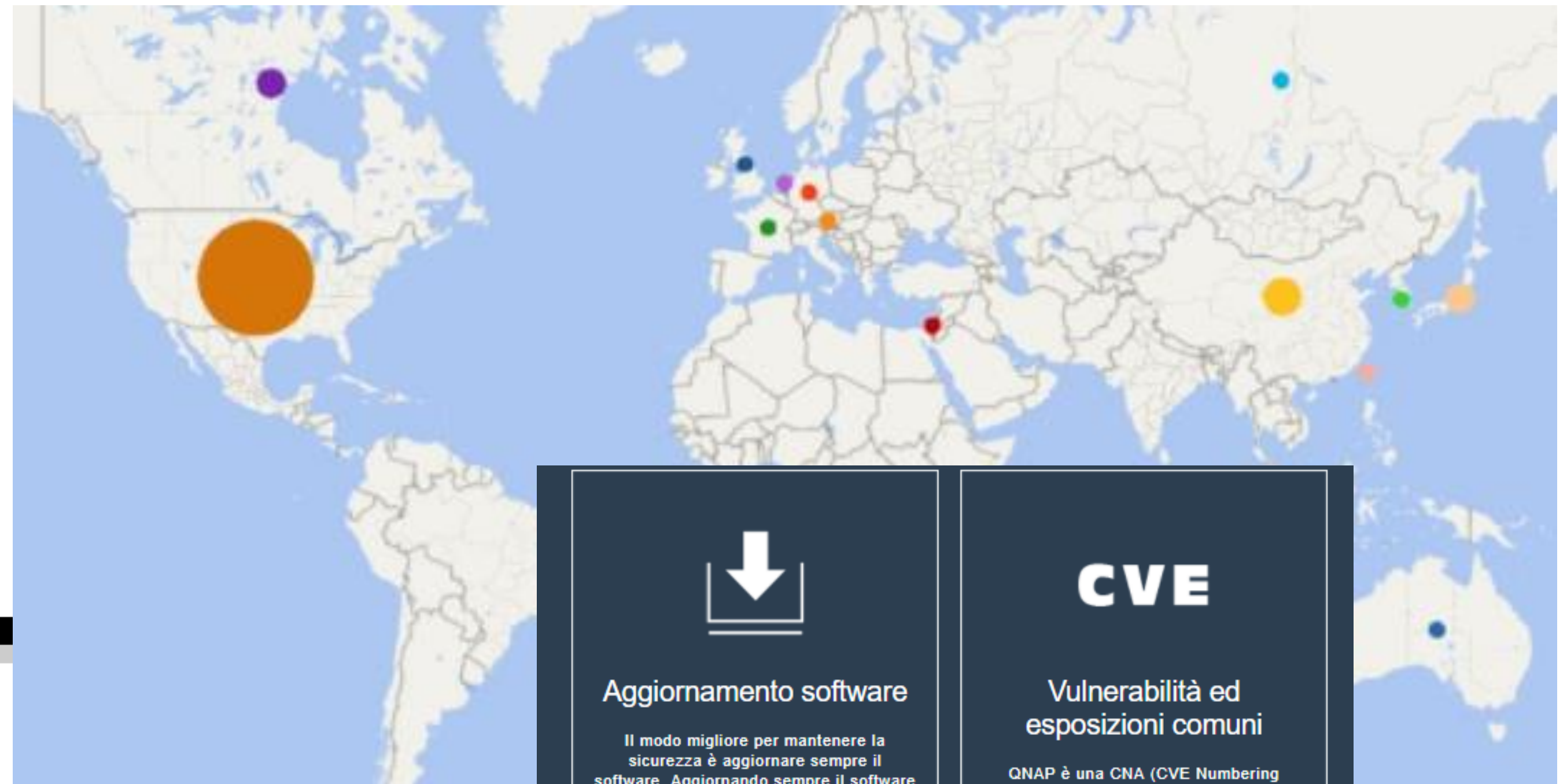
**GOLD-4H-7x24**

- Intervention time: On-site/Remote within 4 hours after the assistance call log has taken place.
- Opening of Call logs: regular working hours (Mon – Fri, 9 - 18, national holidays are excluded) via telephone or web; outside working hours, on emergency phone number which will be provided or via web
- Calls Management : 7 days a week, 24 hours a day. Recall Time: generally immediate and not more than 30 minutes. Repair time: not defined

Disk included:		YES (if yes below S/N)	No
Disk	Model		ST2000NM0135
	Qty		8
		SSD disk	HDD disk
S/N		ZC20F2AQ	ZC20BFAX
		ZC20BFDD	ZC20BG2B
		ZC20BELC	ZC20F1YN
		ZC203CNR	ZC209ZAX



# QNAP è CVE: Vulnerabilities & Exposures



HOME > CVE LIST > CVE NUMBERING AUTHORITIES

**CVE Numbering Authorities**

[Participating CNAs](#)  
[Become a CNA](#)

CVE Numbering Authorities (CNAs) are organizations from around the world that are authorized to assign CVEs to vulnerabilities affecting products within their distinct, agreed-upon scope. These CVEs are provided to researchers, vulnerability disclosers, and information technology vendors.

Participation in this program is voluntary, and the benefits of participation include the ability to publicly disclose a vulnerability with an already assigned CVE ID, the ability to control the vulnerability information without pre-publishing, and notification of vulnerabilities in products within a CNA's scope by researchers who request a CVE ID from them.

To review the products covered by each CNA, visit the [CNA Coverage](#) section on the [Request a CVE ID](#) page.

**Participating CNAs**

There are **77** organizations participating as CNAs as of **October 5, 2017**:

- Vendors and Projects: [63](#)
- Vulnerability Researchers: [7](#)
- National and Industry CERTs: [4](#)
- Bug Bounty Programs: [2](#)
- Primary CNA: [1](#)



**Aggiornamento software**

Il modo migliore per mantenere la sicurezza è aggiornare sempre il software. Aggiornando sempre il software NAS sarà possibile prevenire possibili intrusioni. Scaricare gli ultimi aggiornamenti software da <http://www.qnap.com/download>

**CVE**

Vulnerabilità ed esposizioni comuni

QNAP è una CNA (CVE Numbering Authority) riconosciuta dalla MITRE Corporation. QNAP ha l'autorità di assegnare un ID CVE alle vulnerabilità nel suo software. Tutti i problemi di sicurezza sono gestiti con trasparenza.



**QNAP**

**QNAP**<sup>®</sup>

Grazie

2017