

Demand increases for storage and computing

Add Storage

Purchase large capacity disks and/or storage devices

Enhance Computing

Purchase more powerful servers



But resource is limited. What can we do?

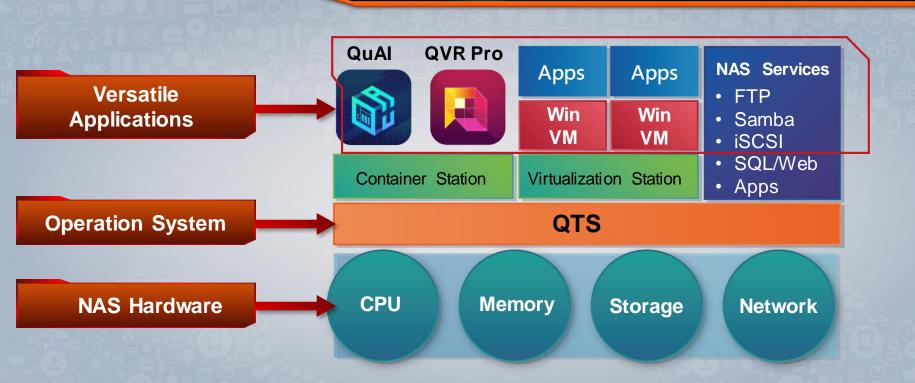
- Different departments in the company require their own independent storage environments, but the budget is tight. How can these demands be met?
- New equipment is needed but the physical space is limited.
- The NAS computing capacity needs a boost while the storage space is still sufficient. Is there a way to deliver what's really in need?





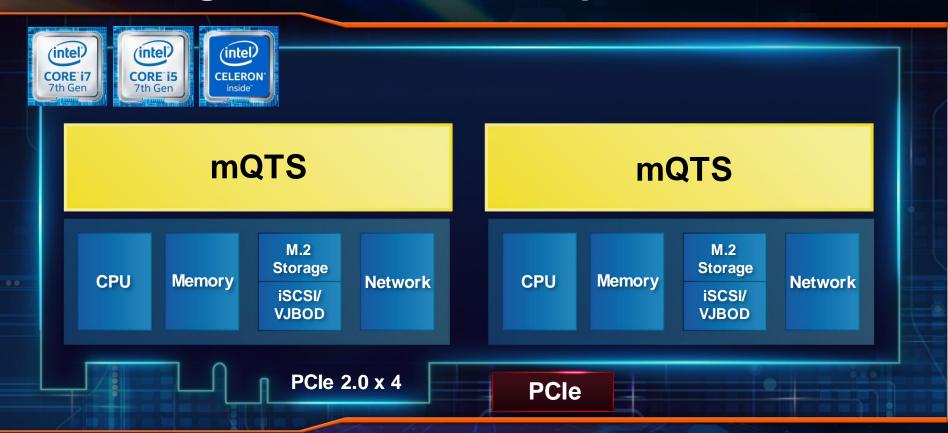


A quick look at NAS architecture

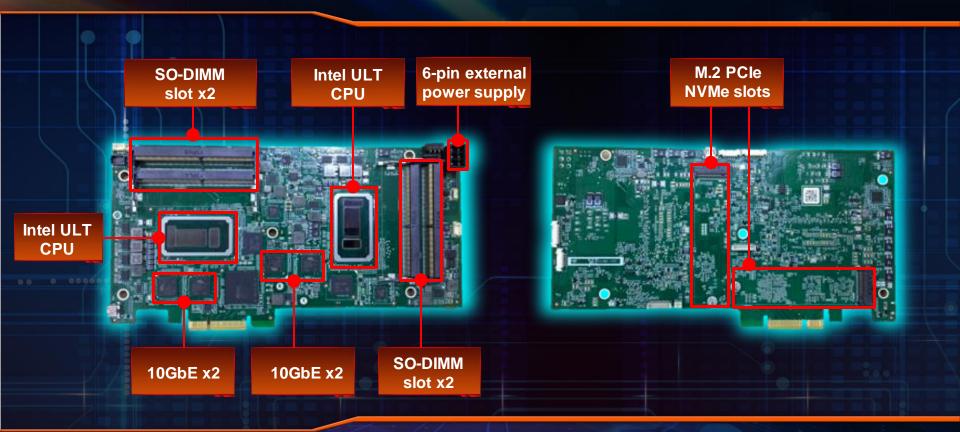




Mustang-200 houses 2 independent nodes

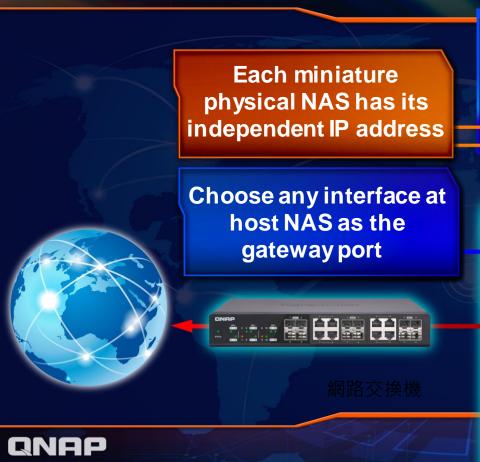


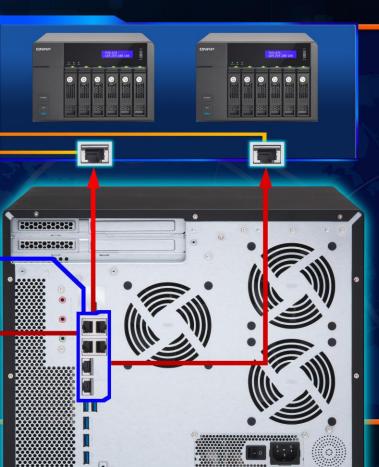
Mustang-200 card design



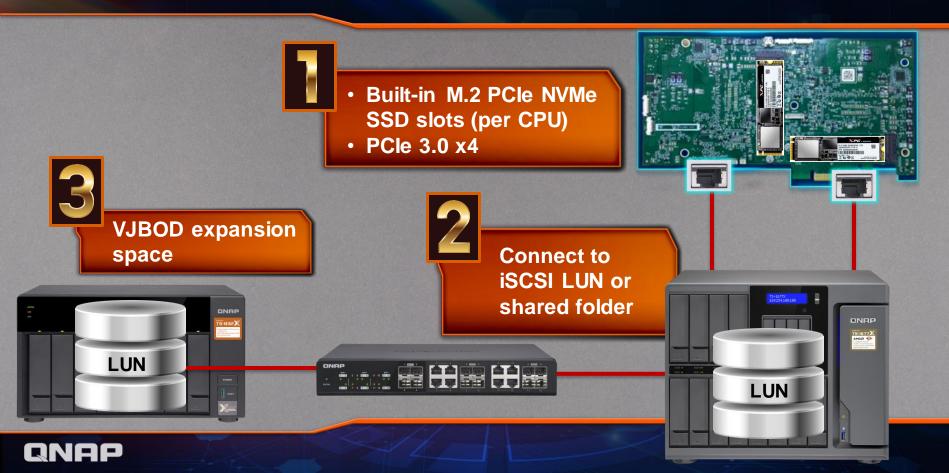


Interfaces





Storage and expansion



High efficiency cooling mechanism



Install multiple Mustang-200 as needed



IEI x QNAP Mustang-200





Mustang-200-i7-1T/32G-R10

- Intel® Core™ i7-7567U 3.5GHz x2
- Intel® 600P 512GB SSD per CPU
- 16GB(8GB x2) DDR4 per CPU
- PCle x4 interface

Mustang-200-i5-1T/32G-R10

- Intel® Core™ i5-7267U 3.1GHz x2
- Intel® 600P 512GB SSD per CPU
- 16GB(8GB x2) DDR4 per CPU
- PCle x4 interface

Mustang-200-C-8G-R10

- Intel® Celeron® 3865U 1.8GHz x2
- 4GB (2GB x2) DDR4 per CPU
- PCle x4 interface



QNAP



DEMO

Mustang-200 intro Mustang-200 setup

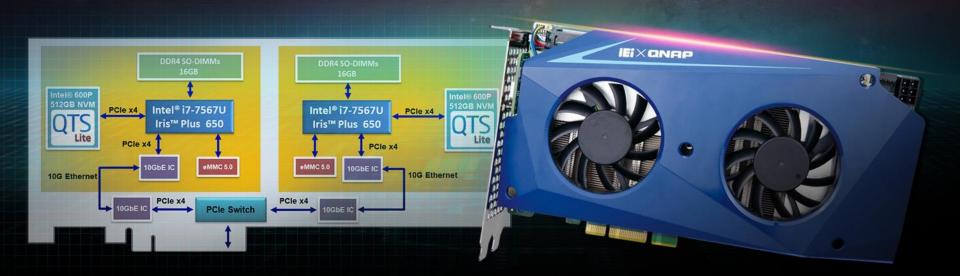
Required NAS models and QTS versions

NAS	Form factor	QTS Ver.	Note
TS-877 TS-1277 TS-1677X	Desktop	4.3.5	
TVS-882 TVS-1282	Desktop	4.3.5	450 W power supply models only
TS-1685	Desktop	4.3.5	550 W power supply models only
TS-1677XU/TS-1677XU-RP TS-2477XU/TS-2477XU-RP	Rackmount	4.3.5	

6-pin additional power



Dual independent QTS system is coming! Bring up your productivity!



Five major benefits for upgrading your NAS now

Buy one card and get two NAS

Economical and affordable

Dedicated Card Manager app For card management on host NAS Massive apps in QNAP App Center

Easy to learn and use

Independent and friendly development environment For resource segregation

Powerful security protection Your safety is our duty



Buy one card and get two NAS

Dual system on one card

Two independent systems for resource assignments

Lightweight Design

Only takes one PCle slot

Prices at a good value

Three configuration options to choose from





QTS Card Manager on QNAP NAS

QTS Card Manager is a new app for host NAS users to manage subsystems.

- Automatic network setup
- Subsystem overview
- Configure subsystem storage space
- Subsystem network settings



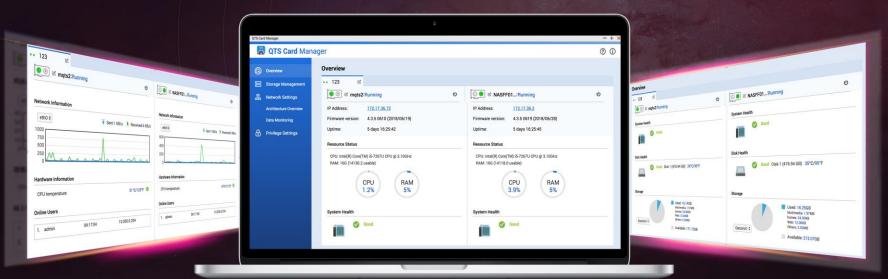


QTS Card Manager - Overview

Intuitive operation of system resource management

- Firmware version and hardware resource usage monitoring
- Remote control power on and off

- One-click to load subsystem management interface
- View online users



QTS Card Manager - Storage Management





QTS Card Manager - Network Settings

Network topology

- Intuitive and clear network topology, for understanding network configuration
- Subsystem network settings for flexible configuration of network environments

Network traffic monitoring

 Clearly monitors all network activity and traffic changes, and review network bandwidth usage







Versatile apps in QNAP App Center

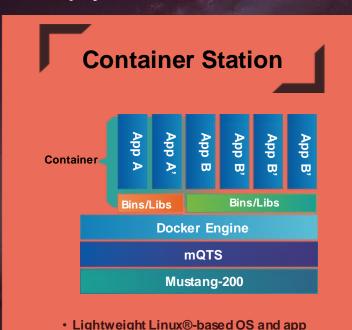
- Hundreds of apps to choose from
- Importing from third-party app stores
- Develop your own application is also possible!



Further expansion: virtualization

Utilize the advantages of independent hardware resources to enable virtualization on miniaturized physical machines!





Supports LXC and Docker® containers

Easy deployment, portable and efficient

virtualization solution

The system is independent and segregated

Subsystems and host NAS run independently of each other

- Share with different people and the users may have their own QTS system
- Responsible for different application services to ensure that applications do not affect each other

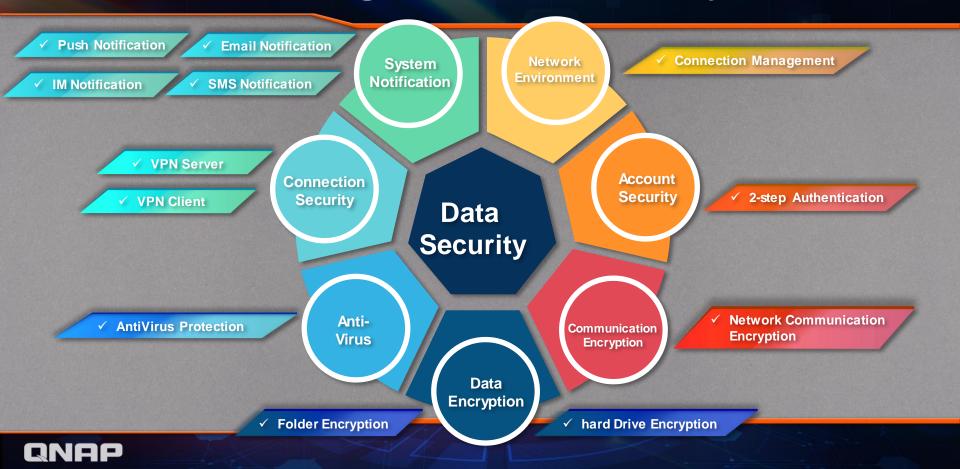


Independent physical hardware resources are more efficient than virtual machines

Each mQTS system has its own independent hardware resources, such as processors and memory. No need to share host system resources. Application and performance configuration is more flexible



Mustang-200 Data Security



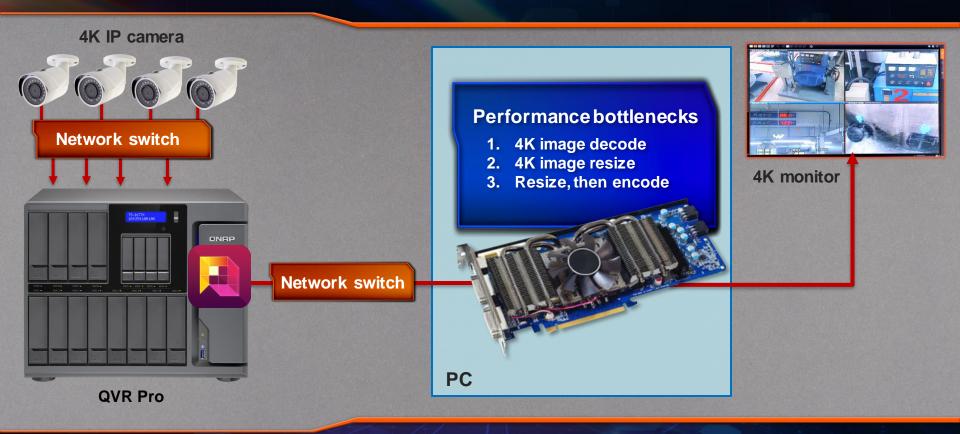
QNAP



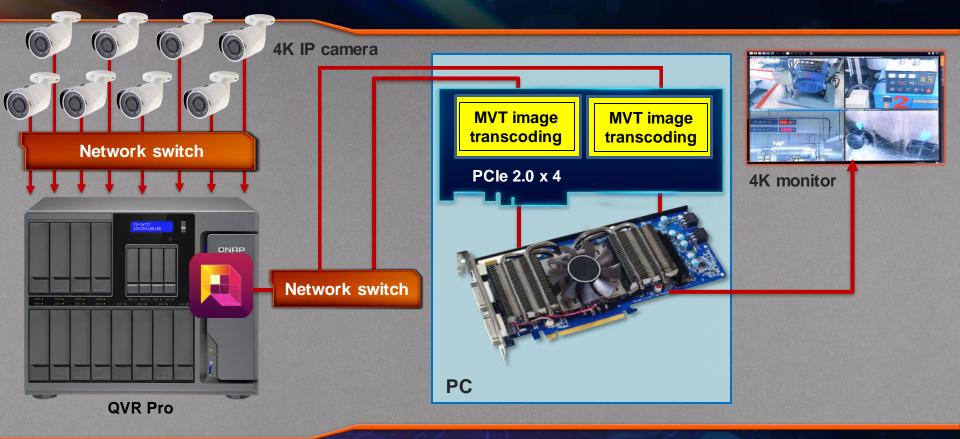
DEMO

QTS Card Manager

QVR Pro surveillance performance bottlenecks



QVR Pro surveillance accelerated



Greatly improves image processing capability

Installation of a Mustang-200 can increase the image processing capability of twelve 4K IP cameras

		w/o Mustang-200	w/ Mustang-200	
Environment	GPU	2 x NVIDIA GTX 1060 GAMING VR X 6G PCI-E		
	HDMI	8 Port (Each GPU provides 4 ports)		
	Number of output monitors	8		
Efficiecy	Image processing capability	Twelve 4K IP cameras	Twenty-four 4K IP cameras	



