

PCIe slot for versatile expansion

TS-253Be/TS-453Be & QWA-AC2600 wireless NIC

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



TS-453Be



TS-253Be



QWA-AC2600



Affordable high performance quad-core multimedia NAS



**Quad-core
J3455**

Apollo Lake SoC

1.5GHz

Base

2.3GHz

Max



**Dual-channel
RAM**

DDR3L-1866

2 x SODIMM Slots
Up to 8GB total

TS-253Be-2G:

2GB RAM (1 x 2GB)

TS-453Be-2G:

2GB RAM (1 x 2GB)

TS-253Be-4G:

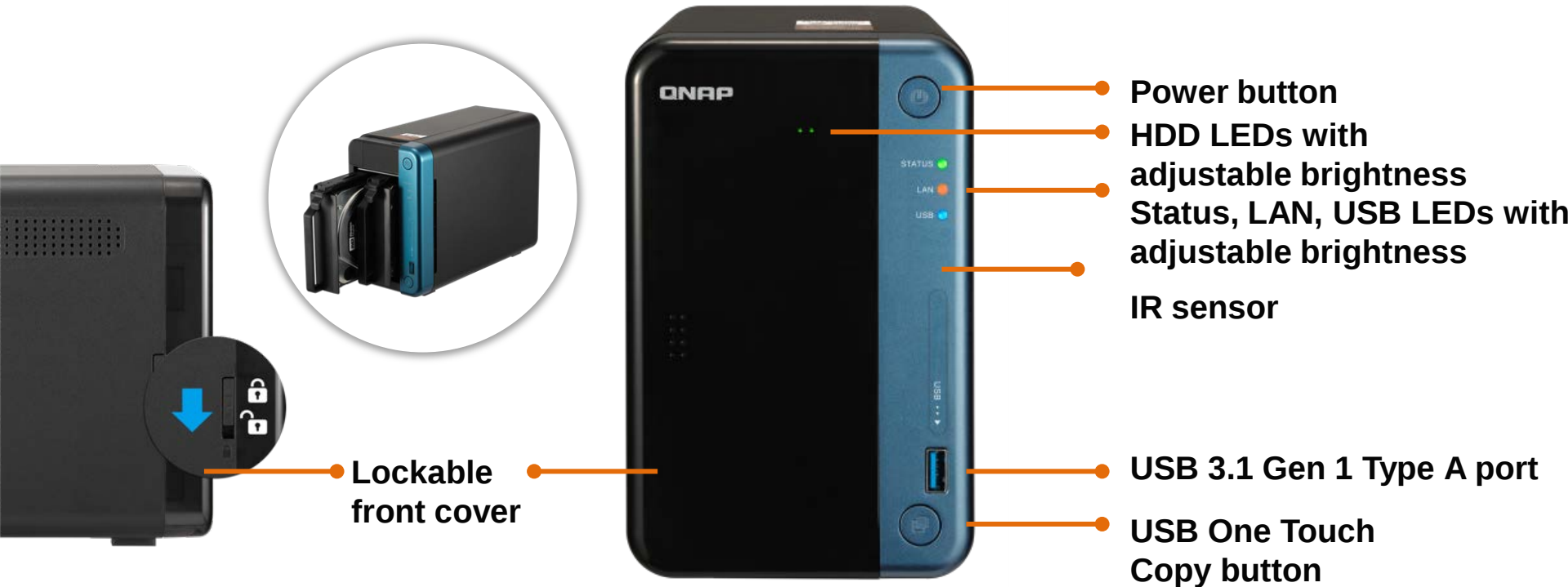
4GB RAM (2 x 2GB)

TS-453Be-4G:

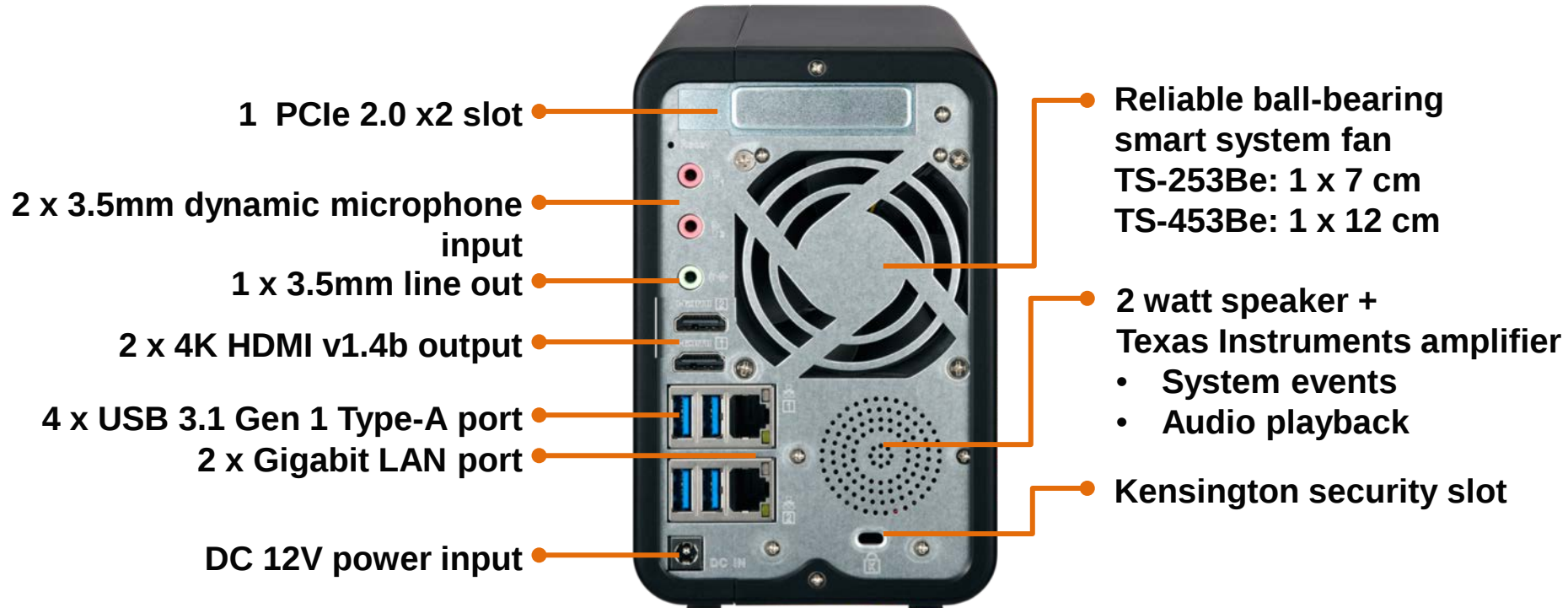
4GB RAM (2 x 2GB)



When sleek design meets high usability

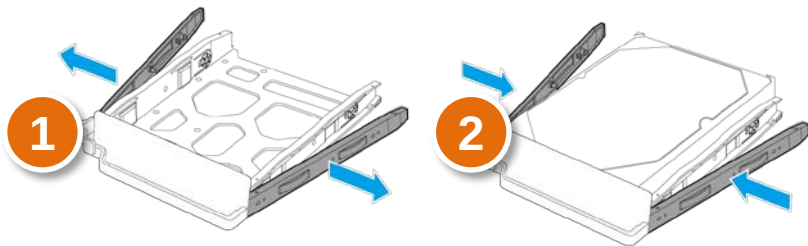


Enhanced productivity with abundant connectivity



Easy to get started

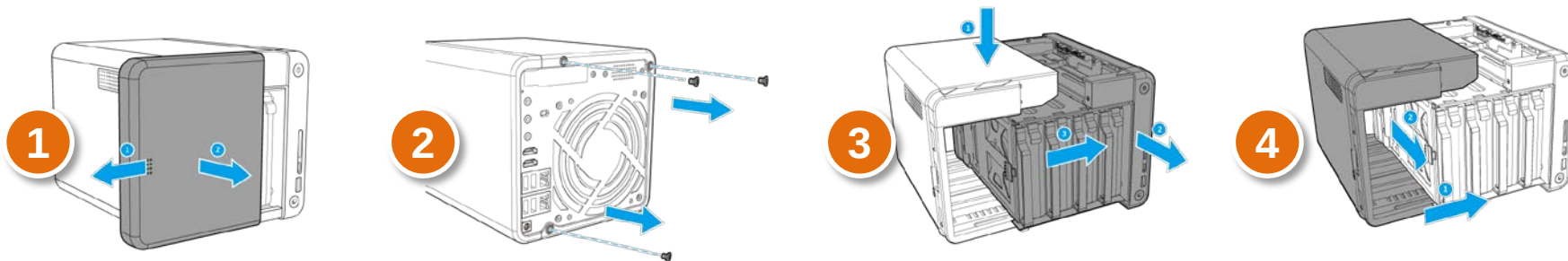
3.5-inch HDD : tool-less installation



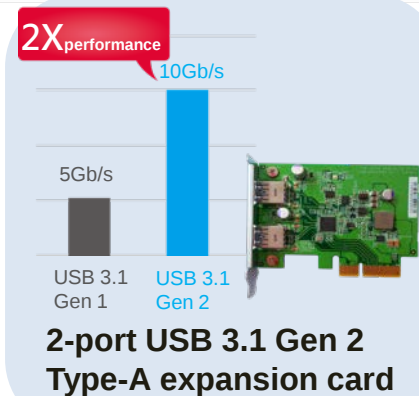
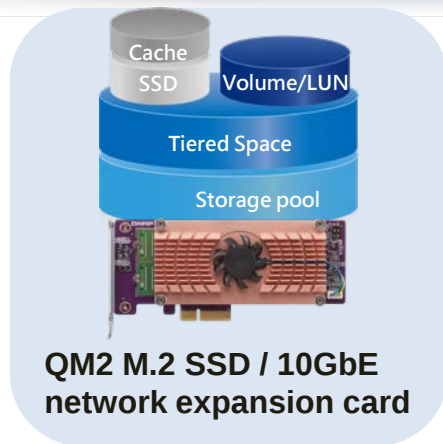
2.5-inch HDD/SSD : screw installation



Install a PCIe card by removing a few screws and the cover



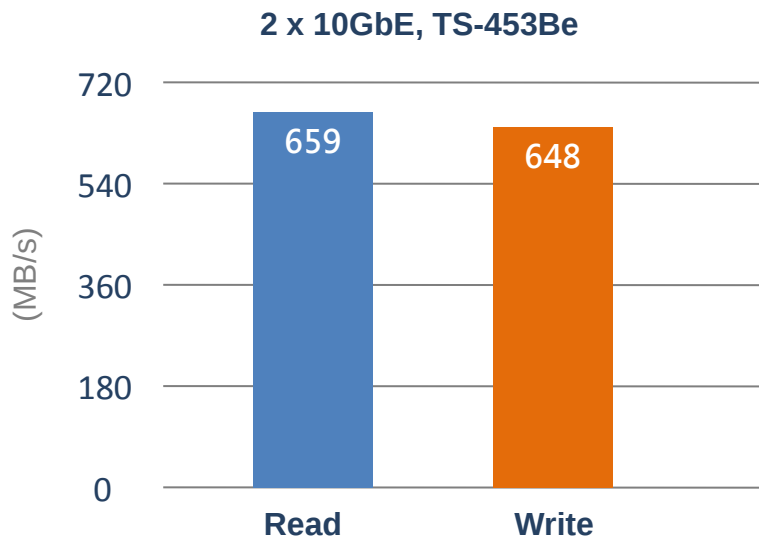
A versatile NAS that grows with you



1 PCIe 2.0 x2 slot



10GbE via PCIe expansion



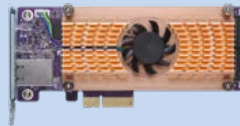
2 x SFP+

LAN-10G2SF-MLX



1 x 10GBASE-T

QM2-2S10G1T
QM2-2P10G1T



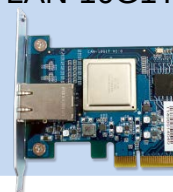
1 x SFP+

LAN-10G1SR



1 x 10GBASE-T

LAN-10G1T



Tested in QNAP lab. Results vary depending on the environment.
Test Configurations: NAS: TS-453Be, QTS 4.3.3
RAID Configuration: RAID 5; Intel S3500 240GB SSDs
(SSDSC2BB240G4); QNAP LAN-10G2SF-MLX 2 port 10GbE SFP+

Client PC: Intel® Core™ i7-4770 3.40GHz CPU; DDR3L
1600Hz 16GB; WD 1TB WD10EZEX; Intel Gigabit CT (MTU
1500) ; Windows® 7 Professional 64bit SP1 & Windows 8.1
Pro 64-bit



Full multimedia experience over competitors



2 x 4K HDMI v1.4b output



Optional RM-IR004 remote



Integrated speaker for system events and music



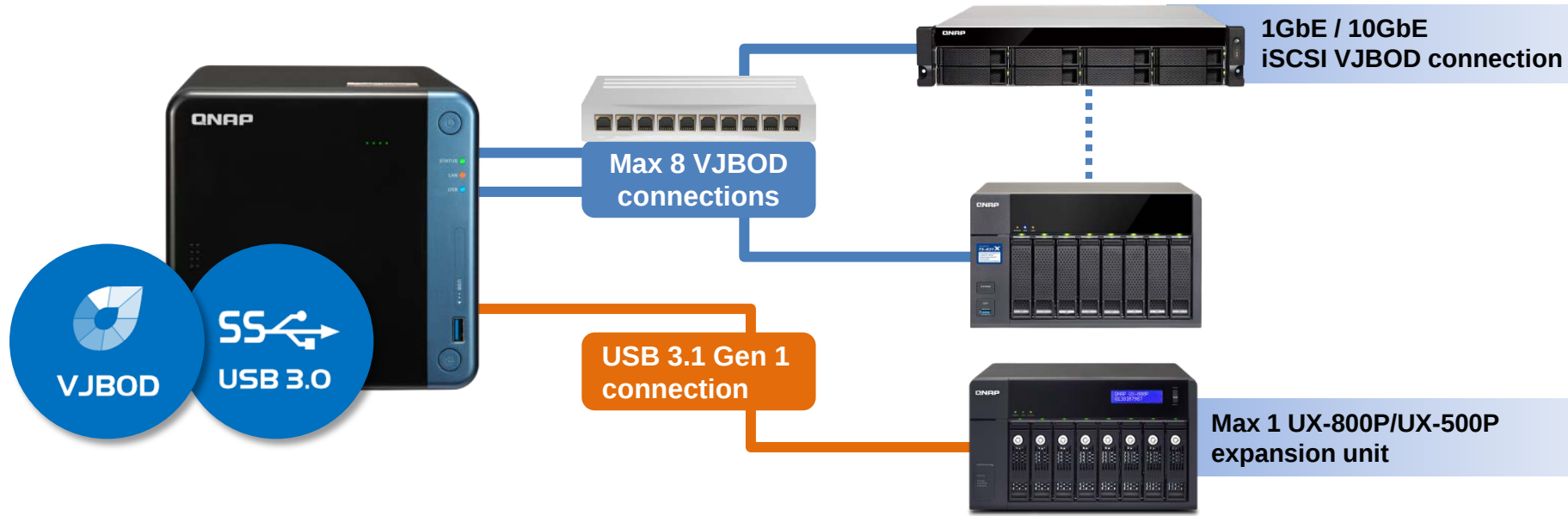
Up to 2-ch H.264/H.265 transcoding



Use Cinema28 for multi-room streaming



Capacity expansion via Virtual JBOD or expansion units



Accessories for TS-x53Be

- Expansion units



UX-800P



UX-500P

- Memory modules



RAM-4GDR3LA0-SO-1866

RAM-2GDR3LA0-SO-1866

- USB 3.1 Gen 2 expansion card



USB-U31A2P01

- Wired NICs



LAN-10G2SF-MLX

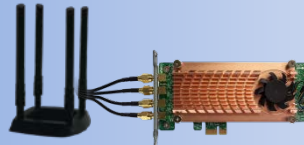


QXG-10G1T



LAN-1G2T-I210

- Wireless NICs

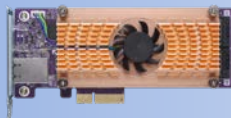


QWA-AC2600



QWA-AC1900U

- QM2 M.2 SSD/10GbE network expansion cards



QM2-2S

QM2-2P

QM2-2S10G1T

QM2-2P10G1T

- 256GB M.2 SATA 6Gb/s SSD*

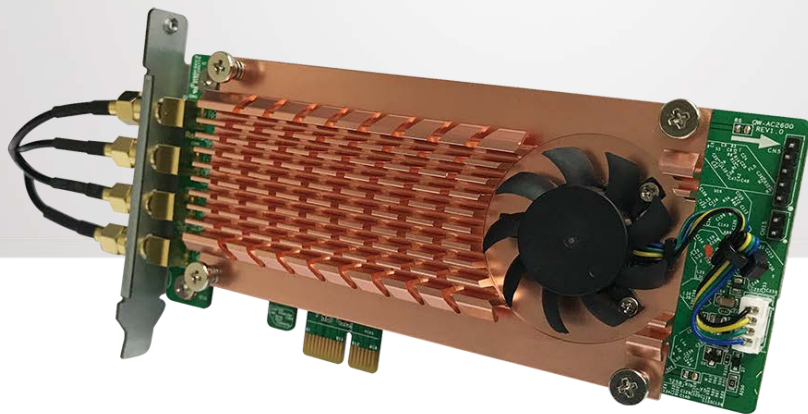


SSD-M2080-256GB-A01

*To install M.2 to TS-x53Be, QM2 expansion card is required.

QWA-AC2600

Turns your NAS into a Dual Band Dual Concurrent Wireless Access Point with the QWA-AC2600 PCIe expansion NIC



QWA-AC2600

**4 X Detachable RP-SMA
connector**

For extending to Quad-
antenna magnetic base

Low profile PCIe

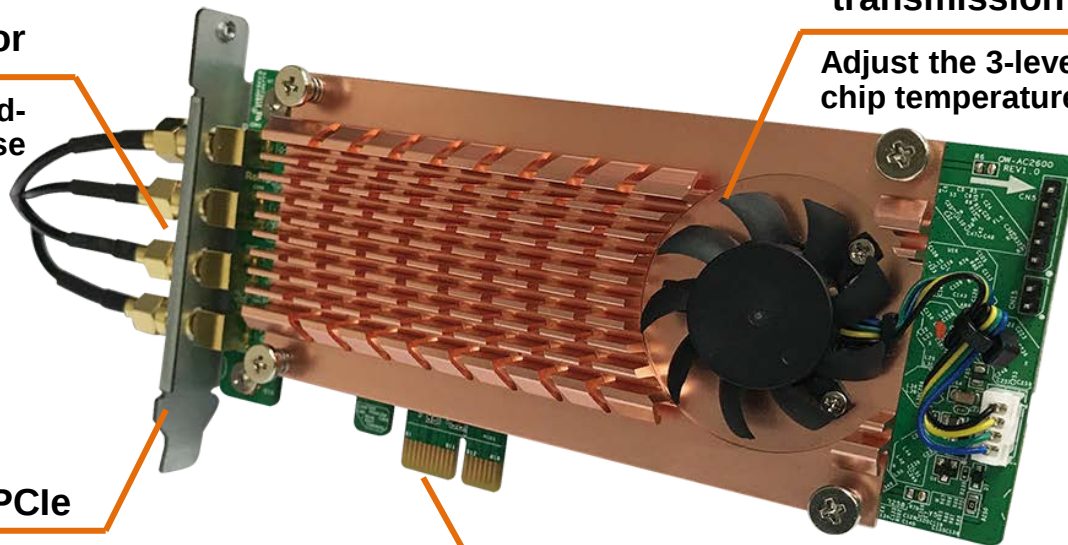
Compact design for most
QNAP NAS

**Active cooling module to ensure the
transmission quality**

Adjust the 3-level fan speed by real time
chip temperature

Up to 500 MB/s PCIe bandwidth

With a PCIe 2.0 x1 interface





High mobility Quad-antenna base

0.8 m RF high frequency coaxial cable

For optimized antenna placement

4 x 5dBi detachable omni-directional high gain antennas

Upgrade or replace the antenna by demand

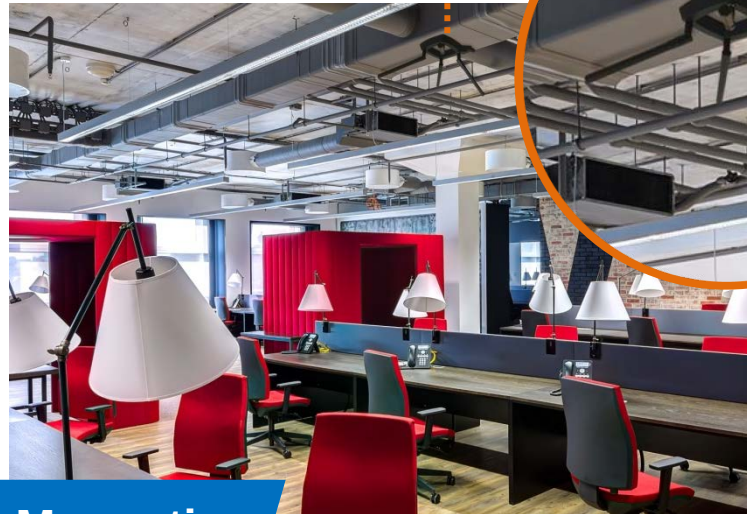


Flexible deployments with the antenna base



Wall-mount

Attached on the wall or ceiling



Magnetic

Attached to metal surfaces

Qualcomm QCA9984 wireless NIC

4 x 4 MU-MIMO

- Simultaneously communicate with multiple devices
- Compliant with IEEE 802.11ac wave 2
- Compatible with IEEE 802.11ac, IEEE 802.11n and IEEE 802.11a/b/g



5 GHz and 2.4 GHz dual band

Up to 2600 Mbps total bandwidth

802.11ac (5GHz): up to 1733 Mbps

802.11n (2.4GHz): up to 800 Mbps



**Dual Qualcomm QCA9984
support Dual Band Dual
Concurrent**



Your NAS needs one empty PCIe slot

- **ARM-based processor ***
 - TS-531P, TS-531X, TS-831X
 - TS-x31XU
 - TS-1635

*QTS 4.3.5 or newer required



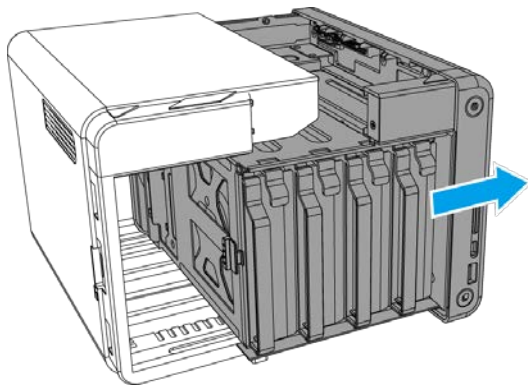
- **x86-based processor**
 - TS-x53B/x53Be, TS-x53BU
 - TVS-x63, TS-x63U
 - TVS-x73/x73e, TS-x73U
 - TS-x77
 - TVS-x82/x82T, TVS-1582TU



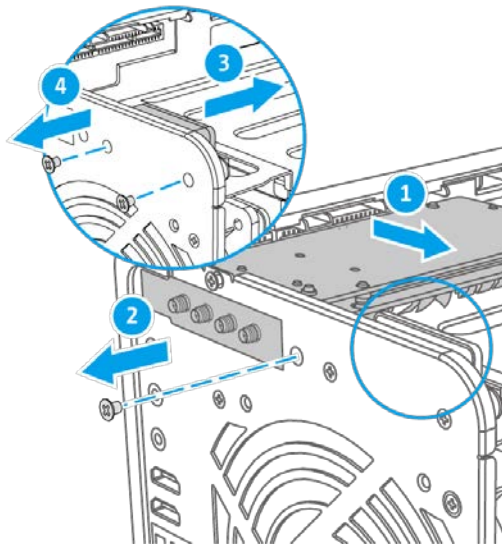
Note: The WirelessAP Station is required to be installed from the QTS App Center

Installation of QWA-AC2600

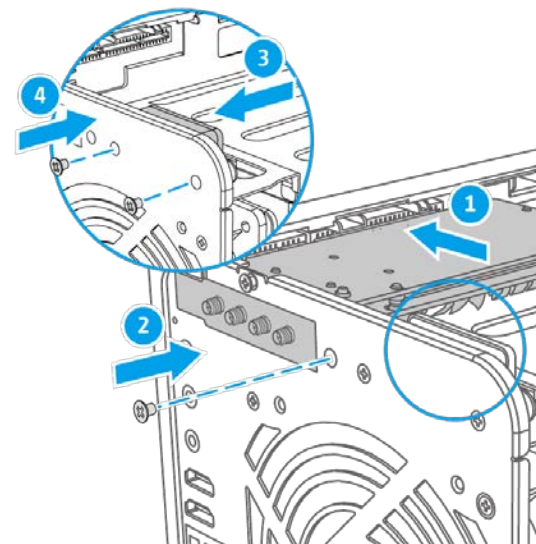
1 Remove the cover of TS-453Be



2 Remove the PCIe cover



3 Install QWA-AC2600



Note 1: TS-453Be may require its speaker to be temporary removed to install QWA-AC2600

Note 2: Bracket exchange of QWA-AC2600 is required to install it in the TS-x53Be



Extend the Internet coverage by wireless



Install WirelessAP Station from QTS App Center, and break barriers of physical cabling



QNAP Build a private wireless network between NAS and mobile devices



QWA-AC2600

Install WirelessAP Station from QTS App Center and enable the DHCP server function to create a private network environment

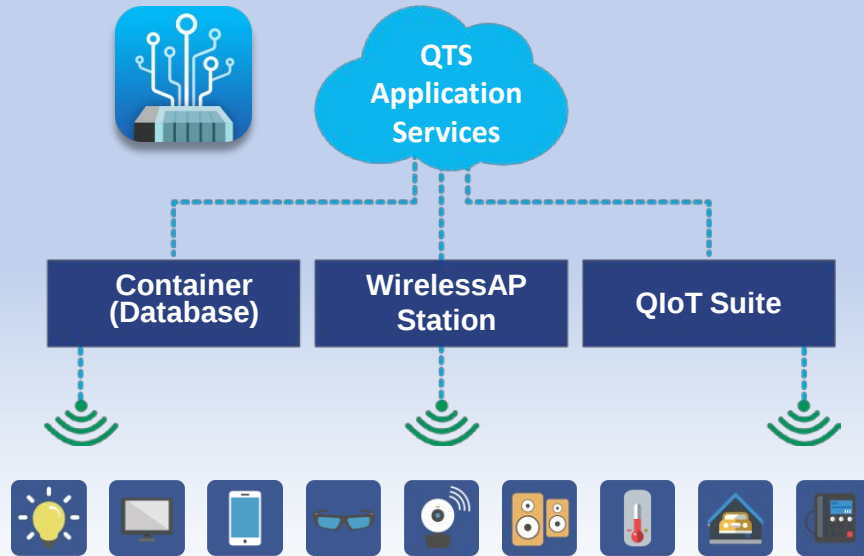
business
BUSINESS & CLOUD

business
BUSINESS & CLOUD

Scenario I: Optimized bandwidth configuration

QIoT Suite Lite

Maximize the number of connections



IoT device

Maximized the available bandwidth



AfoBot
Companion
Robot by QNAP

Scenario II: Private Surveillance



Connect wireless cameras to the network provided by WirelessAP Station and build a secure and professional surveillance system with QVR Pro

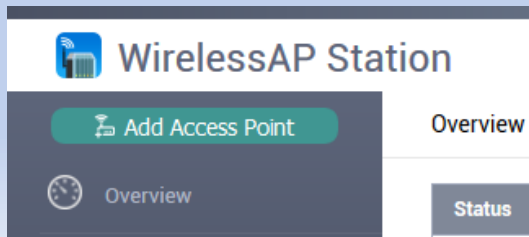
WirelessAP Station installation and configuration



Go to QTS App Center, download and install WirelessAP Station

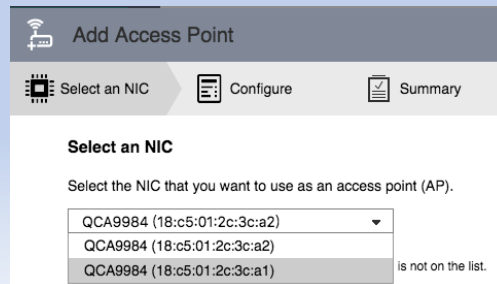
1

Click "Add Access Point"



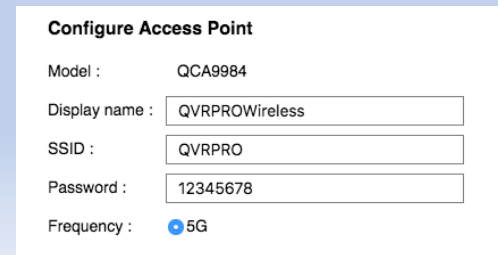
2

Select QWA-AC2600



3

Configure the Access Point



QNAP Enable DHCP and NAT services to a secure your surveillance environment

Create a Virtual Switch to a private network by QTS "Network and Virtual Switch" function. No more physical router is required.



Build low-cost professional storage server with dedicated wireless network applications



TS-453Be



TS-253Be



QWA-AC2600