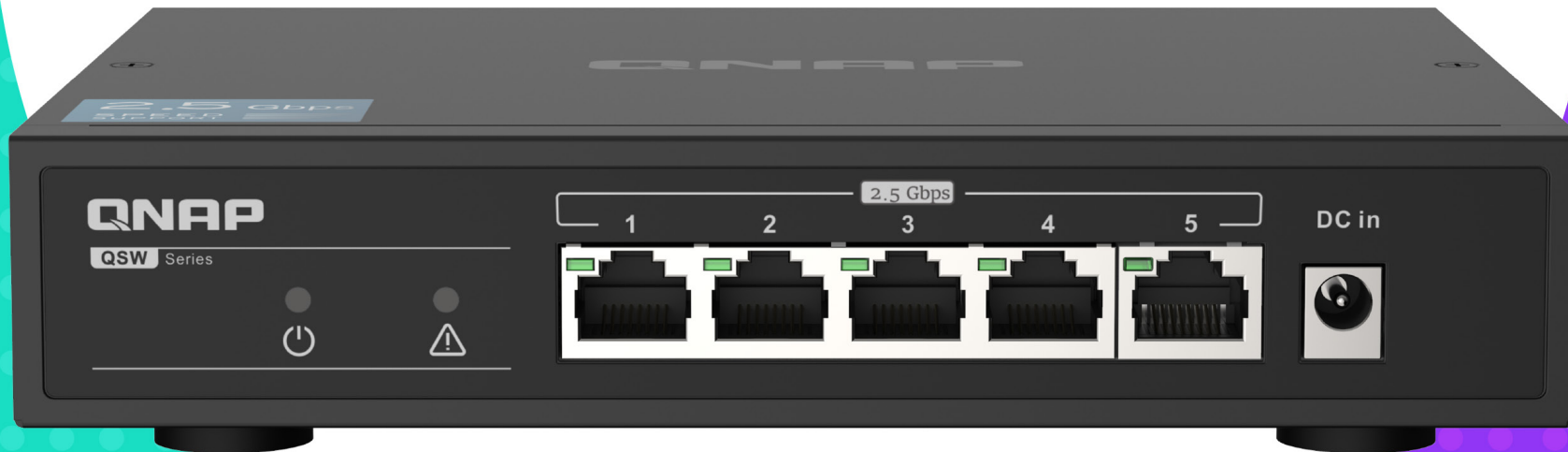


QNAP

QSW-1105-5T

5-port 2.5GbE Switch

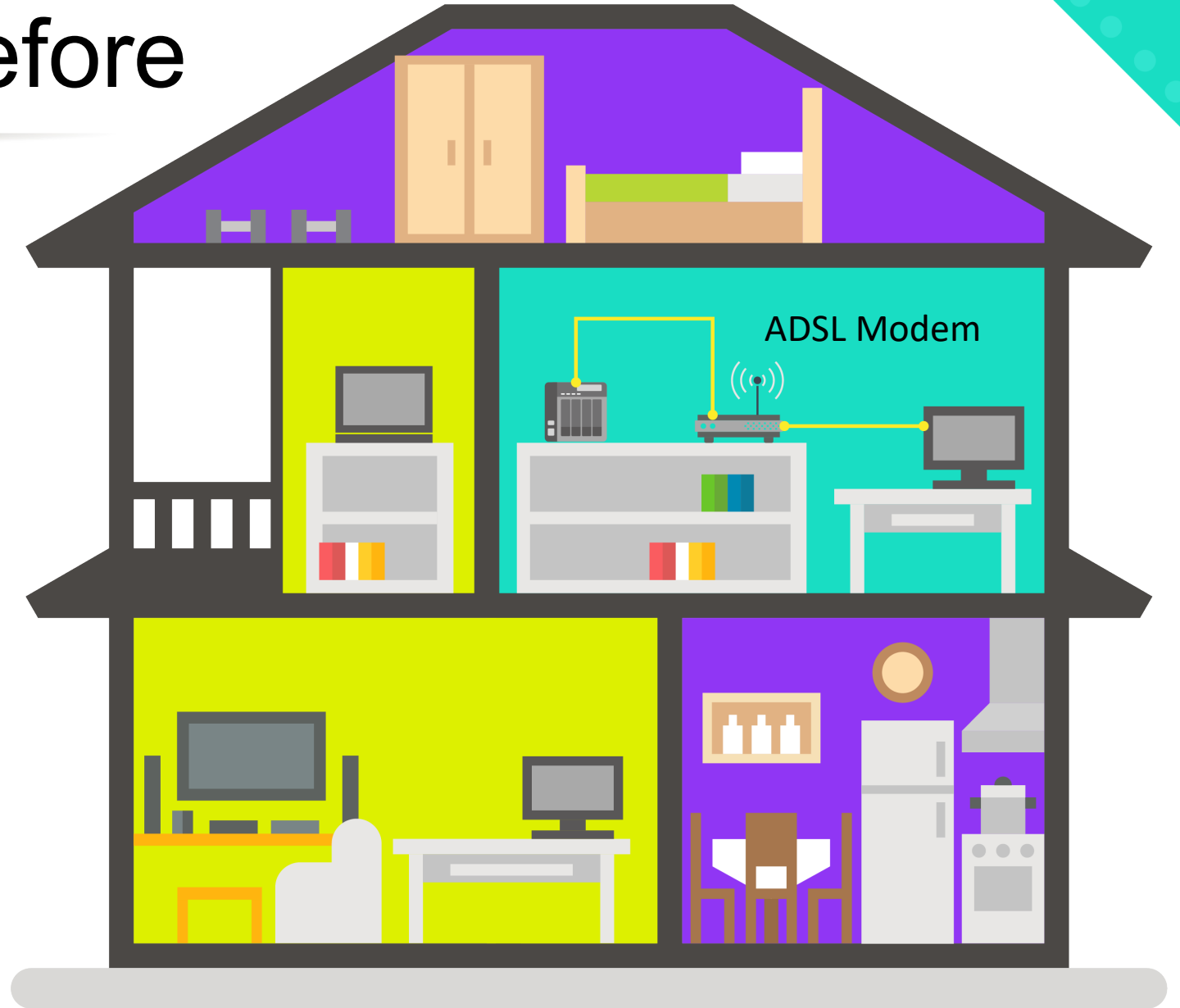
Create an affordable 2.5GbE network environment with CAT 5e cables



Home deploy- before

- Simple network deploy
- Basic internet access request

— 1GbE



Home appliance can do more as you think

- Television 、 HiFi 、 refrigerator can connect to internet

May 6, 2020

Introducing Sonos Arc, the premium smart soundbar

Arc represents Sonos' most immersive home cinema experience. With smart, adaptable, cinema-quality sound, support for Dolby Atmos, and multiple voice assistants, Arc sets a new standard for premium home cinema sound.

f t in ✉

Santa Barbara, Calif. – 6 May 2020 – Sonos (Nasdaq: SONO) today introduced Sonos Arc, the premium smart soundbar that brings immersive, cinema-quality sound to homes around the world. Arc builds on Sonos' industry-leading innovations in home cinema, with software-driven audio that immerses listeners in dramatic detail, crystal-clear dialogue, and impressive bass, featuring support for Dolby Atmos®. More than a soundbar, Arc brings brilliant sound to anything you can stream, tuned for whatever's playing—from TV to music, podcasts, and radio when the TV is off. Powered by Sonos' new sound experience platform, Arc makes powerful home cinema easy with unrivalled choice in what to listen to and how to control it, with the option to expand the system. [Arc](#) is available starting 10 June for £799. Customers can preorder today on [sonos.com](#).



Have more and more smart device with everyone

- A single laptop is enough as before
- Now have laptop, smart phone, smart watch...etc and all need connect to internet



How can you play video game or watch high quality video without 2.5GbE

- Network speed decide stability of online game
- Network speed decide quality of online streaming
- More and more mainboard and laptop support 2.5GbE network card



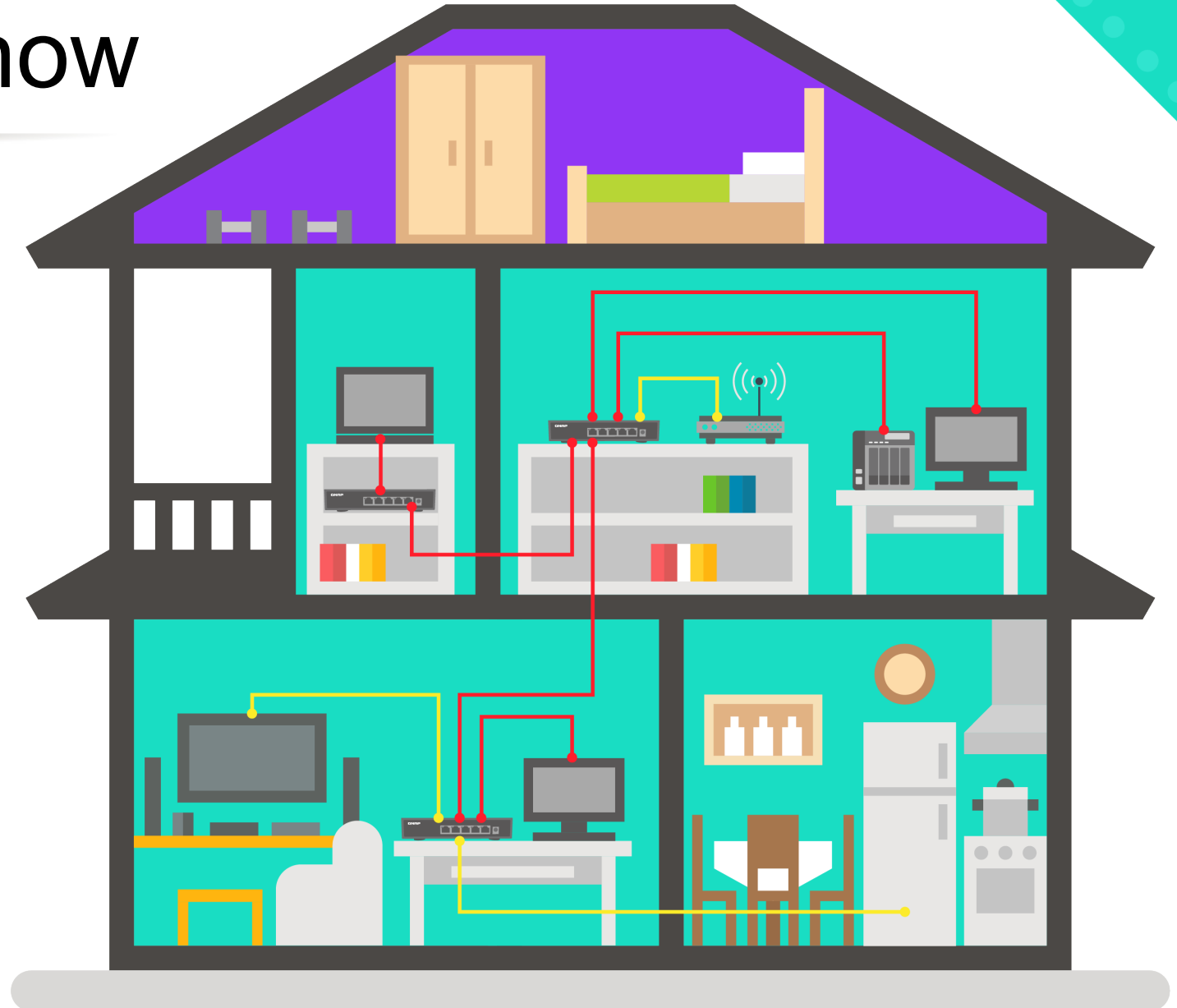
Asus ROG MAXIMUS XII EXTREME



MSI GT76 Titan

Home deploy – now

- More and more end point device at home
- Need high network speed for each device
- Need high speed backbone network
- Can enjoy high quality of streaming if you have high speed network
- Can give you smooth and no delay video game quality if you have high speed network



SOHO deploy - before

- No high speed network request for end point device
- 1GbE network enough for data transfer
- Uplink backbone only support 1GbE

— 1GbE



File size getting larger then before

Pursuing high quality streaming or files means file size will increase

Galaxy S20 video file size comparison

30s sample video

- Full HD 1080p@30fps (H.264) - 52.2MB
- 4K UHD@30fps (H.264) - 138.68MB
- 8K UHD@24fps (H.265)- 302.87MB

Moreover, increasing both the framerate and video duration yielded the following results:

1m30s sample video

- Full HD 1080p@60fps (H.264) - 232.06MB
- 4K UHD@60fps (H.264) - 752.25MB
- 8K UHD@24fps (H.265) - 885.92MB



Need high speed network for transferring large file size of documents

Data transfer efficiency will decrease if don't have high speed network for transferring large size documents

File Size Growth & The Bandwidth Conundrum



[fast file transfer](#), [high speed file transfer](#), [transfer media files](#)

It is no surprise to anyone within Media & Entertainment that video file sizes are getting larger - much larger. Increased image resolution and other picture improvement technologies can significantly enhance the viewer experience, but they all increase the amount of data required to deliver a minute of video.

File sizes will continue to grow

4K video is a primary source of file size growth as more and more productions are done entirely in 4K. As with the transition from SD to HD, the availability of 4K video content to consumers naturally lags adoption in production. But that too is starting to happen, with rapid growth in specific content categories like premium live sports and long-form scripted dramas on SVOD platforms such as Netflix and Amazon. The rollout of ATSC 3.0, FCC's next generation transmission standard, has also accelerated 4K distribution of television, since almost a quarter of U.S. homes still receive broadcasts over the air.

Between 4K streaming providers, the popularity of 4K videogame consoles, and the growing availability of 4K UHD Blu-Ray discs, there is ample reason for consumers to buy 4K UHD TVs. In fact, Futuresource Consulting's *2019 Worldwide TV Market Report* reported that 4K UHD TV sales hit 105m in 2018, up 32% from the previous year.



Using larger storage and high speed NAS for handling such large documents

- Enough storage space for files
- High speed network keep high quality of network efficiency



TS-653D



TS-431P3

Slow network speed hinder efficiency of office work

- Mainboard support 2.5GbE
- Laptop support 2.5GbE
- Keep you stay with high speed network without latency



Gigabyte Z490 AORUS MASTER



Apple MacBook



Asrock Z490 Taichi

SOHO deploy – now

- Office network device support higher network speed
- File size getting larger
- Uplink network getting higher
- Have high speed network at office can increasing efficiency of working



Network speed get into next generation

- Intel already highlight how important it is of 2.5GbE
- Chipset support 2.5GbE since 2019
- Start marking the advantage of 2.5GbE before 2019

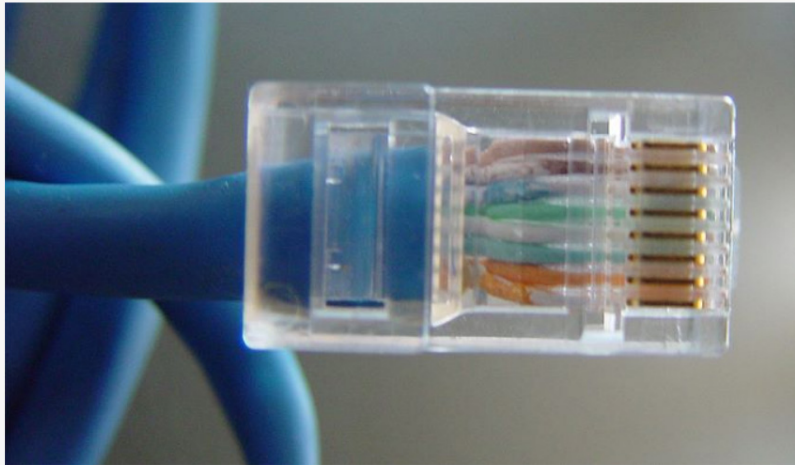
Intel Quietly Mentions 2.5 GbE Ethernet Controllers

by [Dr. Ian Cutress](#) on October 3, 2019 3:00 PM EST

Posted in [Networking](#) [Intel](#) [Ethernet](#) [2.5 GbE](#) [i225](#)

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Comments

[+ Add A Comment](#)



One of the parts that was quietly mentioned in yesterday's Cascade Lake X-Series processor launch was support for new Ethernet controllers. Specifically it mentioned Intel's i225 Ethernet controller range, which are rated for 2.5 GbE networking speed. This is news to us – up until this point, Intel has been relatively quiet on its 'multi-gigabit' Ethernet strategy (2.5GbE and 5GbE) and other companies have taken the lead.



Do we need also upgrade our network cable?

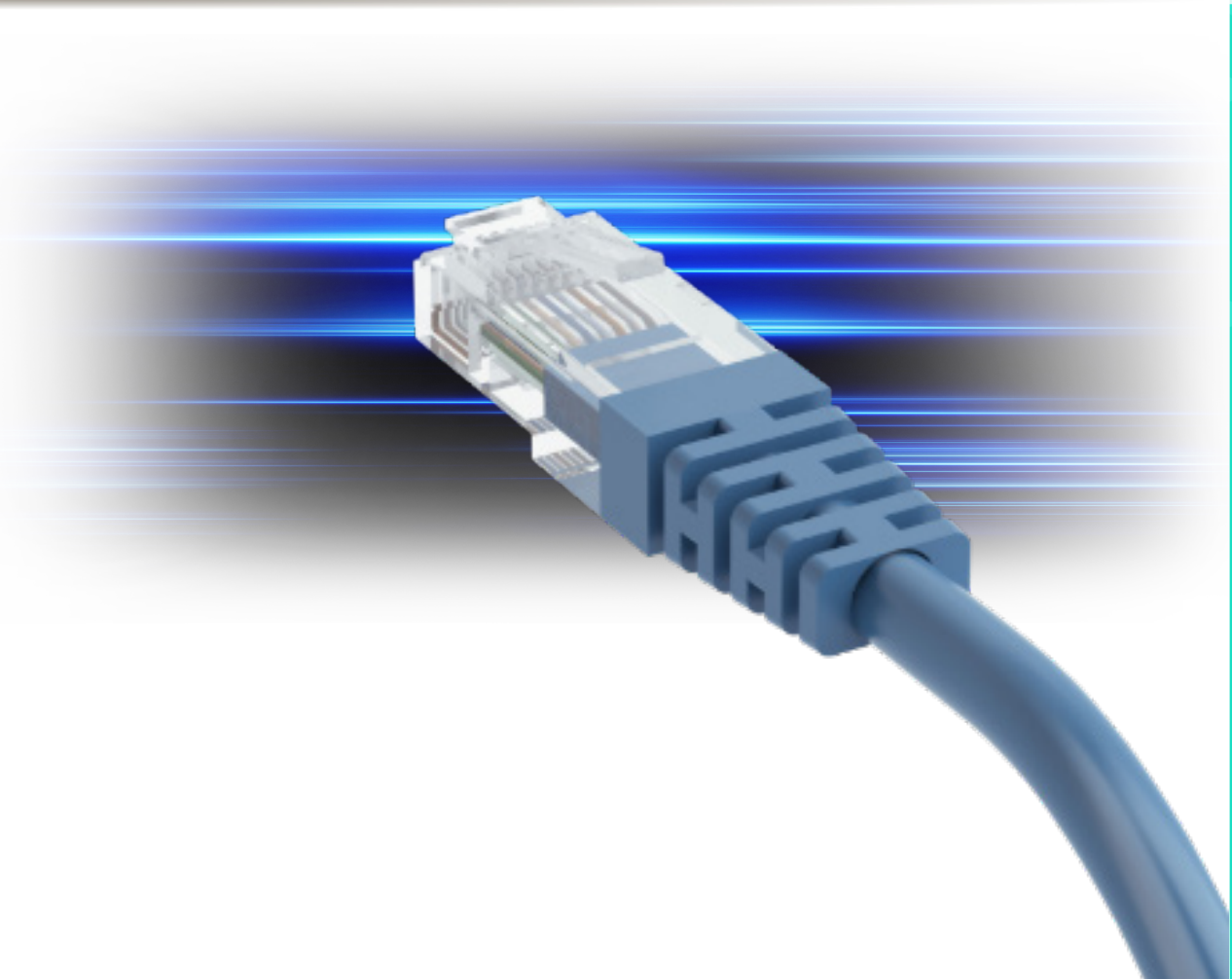
- To increase our network speed, I already swap my switch to 2.5GbE, do I need swap network cable also?



You can use original Cat 5e network cable directly

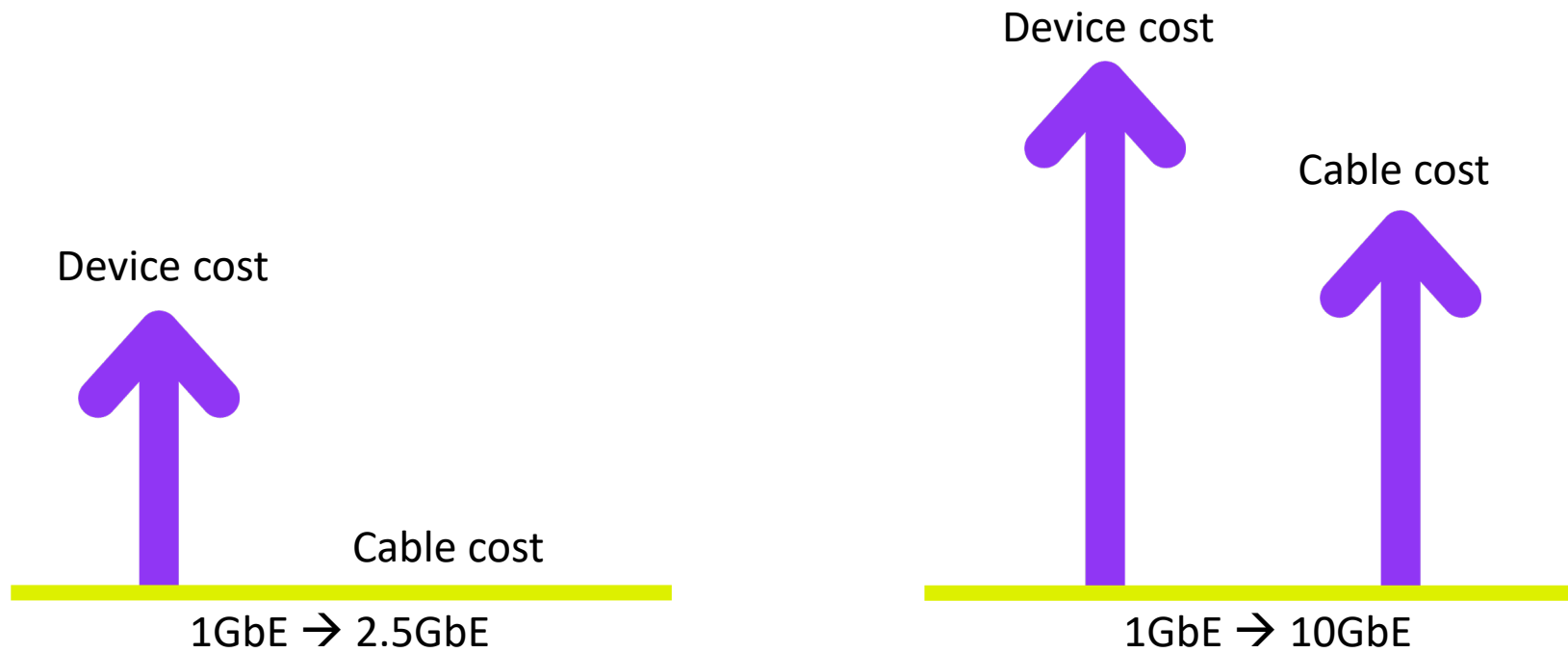
- Don't need worry about redeploy your network cable

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



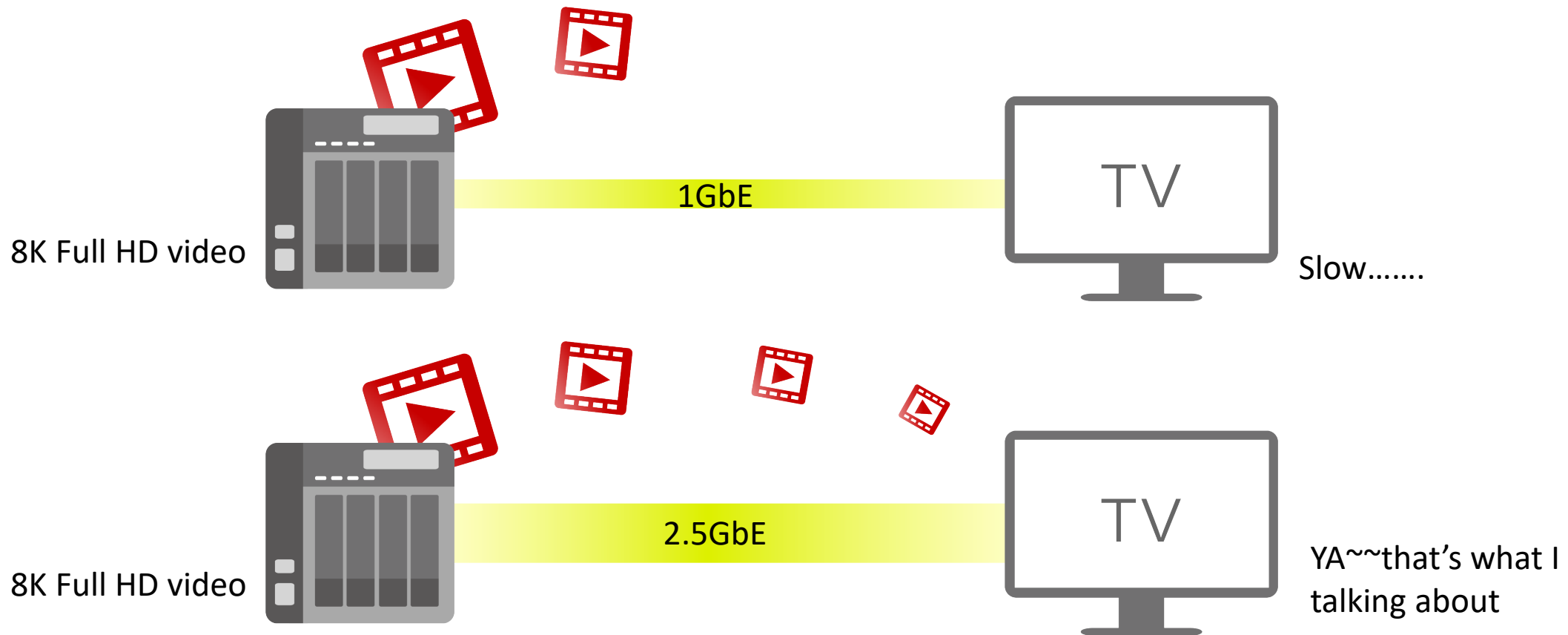
2.5GbE is the best choice of low-cost for upgrading network speed

- How much \$\$\$ to have a 10GbE switch?
- How much \$\$\$ to upgrade your network cable?



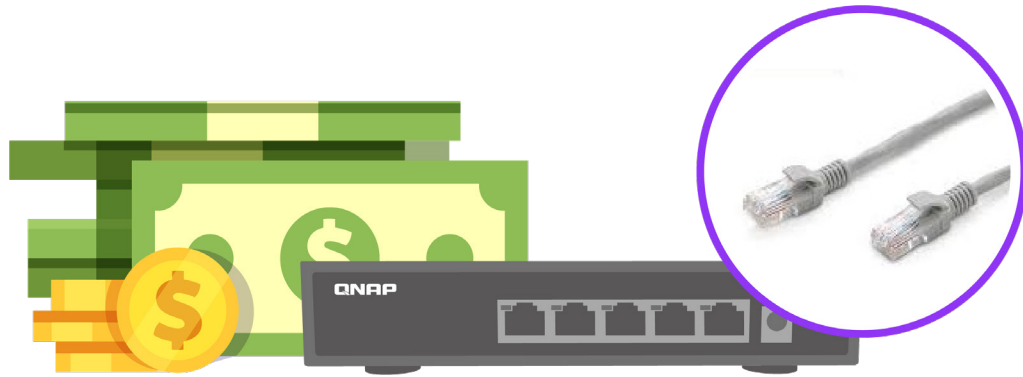
2.5GbE is coming

Don't let low network speed slow down your steps

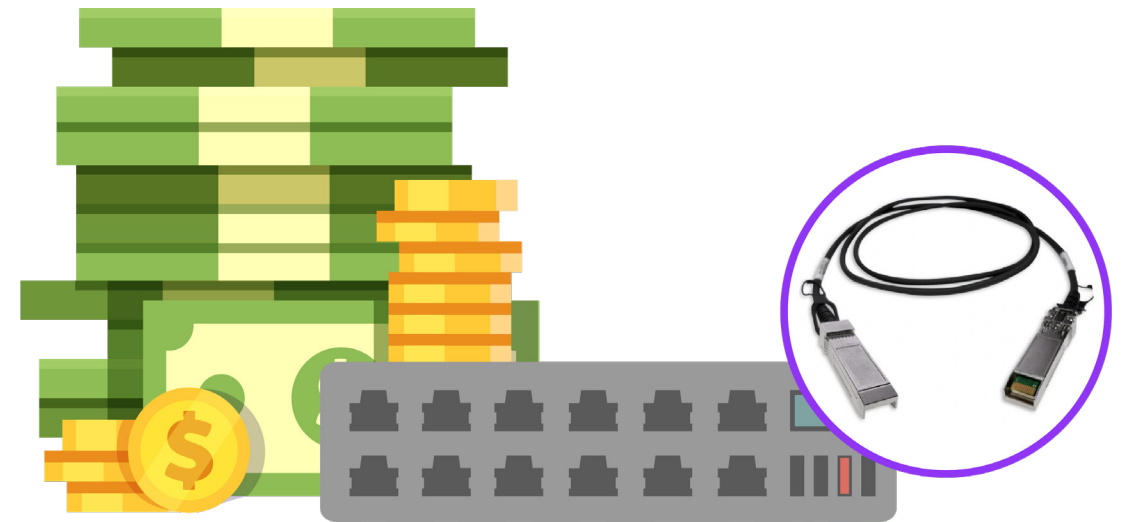


Let's use QSW1105-5T take you to high speed network without any pain

- Low price 2.5G switch, balancing the cost of increasing network speed and swap new devices
- Can use current RJ45 Cat5e cable, saving money for swap cable



2.5GbE solution



10GbE solution

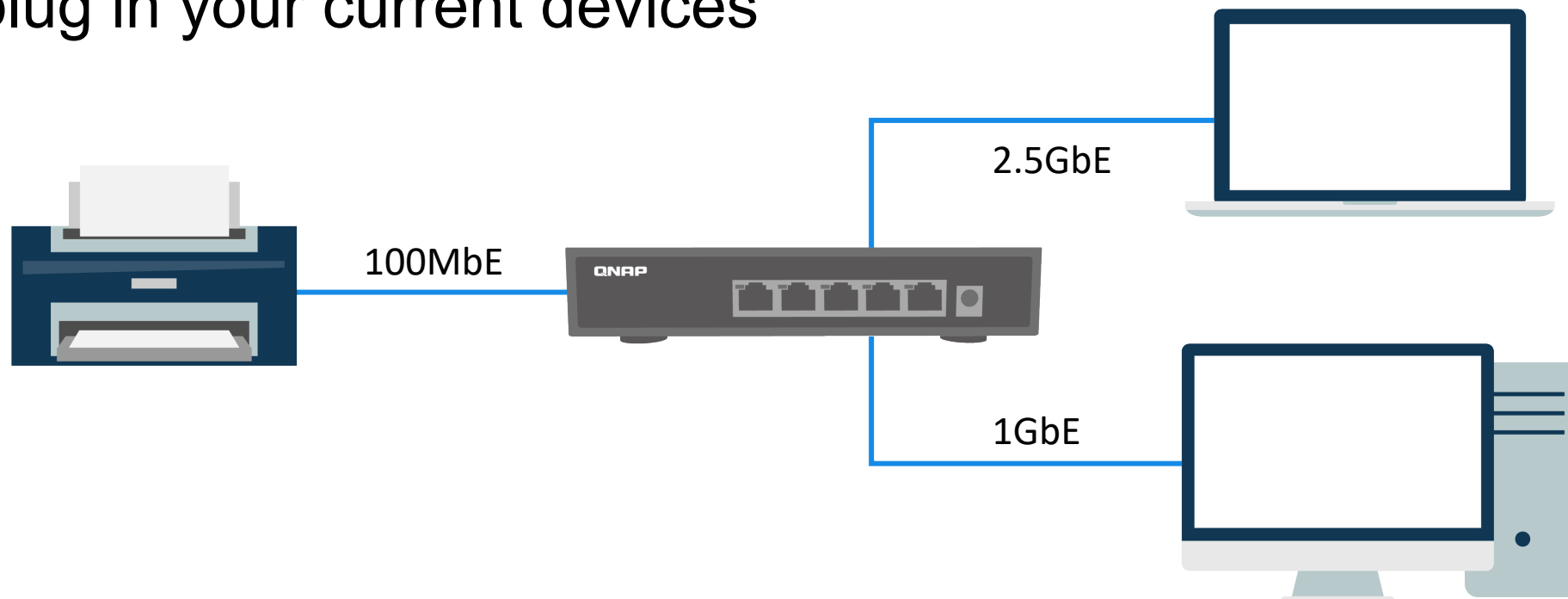
QNAP

Hardware highlight



Connect your current end point device directly

- 5 ports 2.5GbE design
- 1GbE or 100MbE devices can connect to it directly, feel free plug in your current devices



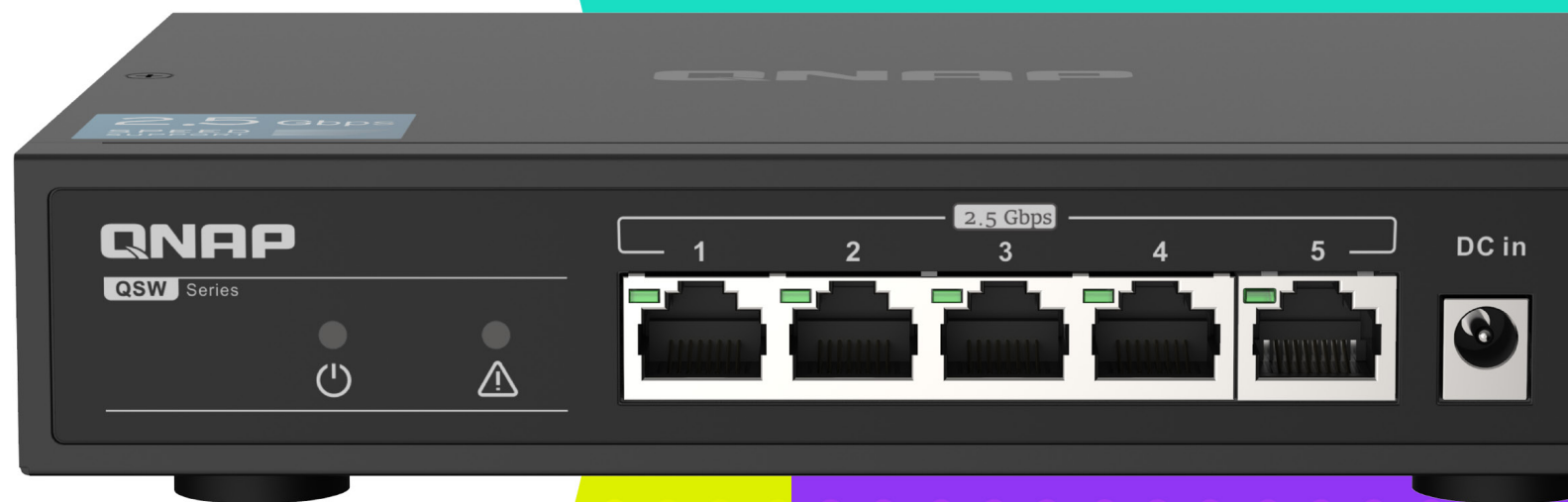
Fanless design, without bothering

- Desktop fanless high quality housing design
- Don't worry about noise even you put at home



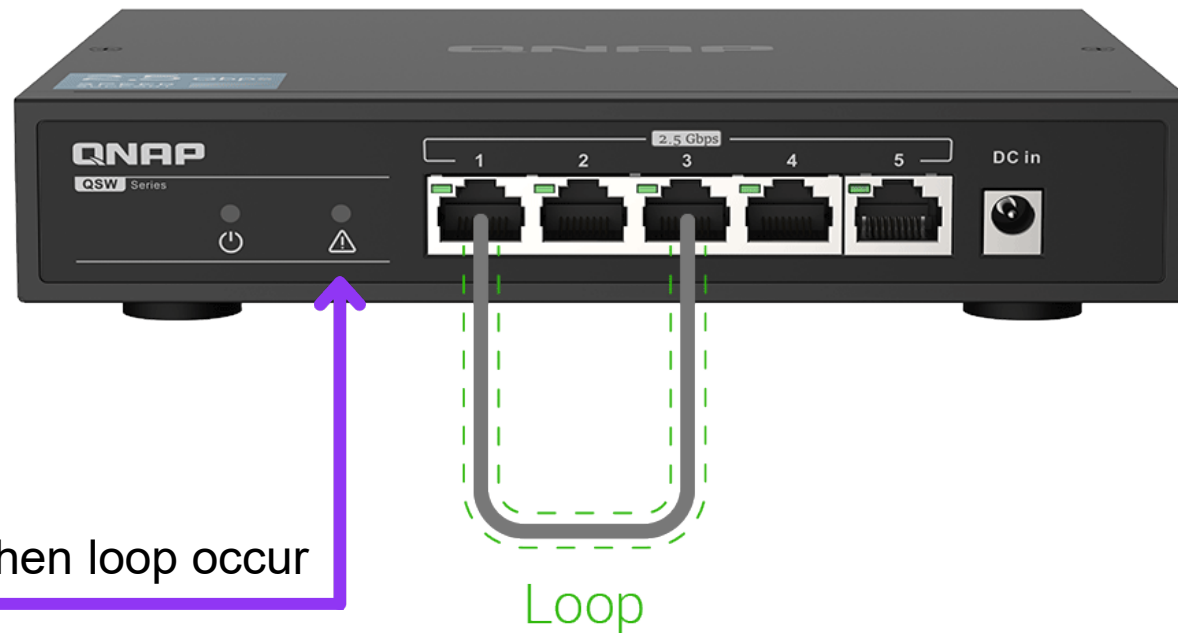
QNAP

Software highlight



Loop guard keep away with wrong cable connected

- Loop guard usually support at high level with GUI configuration management switch
- Auto detect loop mess and block it directly, no manual configuration needed



LED light steady when loop occur

Automatically working without any configuration

- Plug and play
- No configuration needed, everyone can set it up



QNAP

Perfect with QNAP 2.5GbE NAS





QNAP 2.5GbE teams give you perfect experience of high speed network

Professional high efficiency network storage



Intel Celeron J4125 4 cores 2.0GHz, 2 x 2.5GbE, PCIe extend M.2 NVMe/ SATA SSD or 10GbE

Annapurna Labs AL-314
4 cores 1.7GHz, 1 x
10GbE SFP+, 1 x 2.5GbE



TS-653D

TS-453D

TS-253D

TS-431X3

Digital home with high quality of streaming

Annapurna Labs AL-314
4 cores 1.7GHz, 1 x 2.5GbE



TS-231P3

TS-431P3



QSW-1105-5T 2.5GbE is your best choice of low-cost for upgrading network speed

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