

ZenWiFi AX

AX6600

Tri-band Mesh System

Agenda

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- **Technology Briefing**
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 - ✓ **Ease of Usage**
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Product Introduction

Product Overview

Date Rate



ZenWiFi AX

AiMesh Set 2Pk

- BRCM Solution
- Tri-Band 4+2+2
- Data Rate : AX6600
- Full AX Band

First Triband Full AX Mesh WiFi System



RT-ACX92U

AiMesh Set 2Pk

- BRCM Solution
- Tri-Band 4+2+2
- Data Rate : AX6100
- 11 ax in 5G-2
- 11 ac in 5G-1, 2.4G

First AX Mesh WiFi System



ZenWiFi AC

AiMesh Set 2Pk

- QCA Solution
- Tri-Band 4+2+2
- Data Rate : AC3000

First ZenWiFi Series Product

(Extremely optimized in WiFi Coverage and Ease of Use)

Price

ZenWiFi AX SPEC Table

Chipset Solution	BCM6755(SOC, 2.4G+5G-1)+BCM43684(11ax 5G-2)	
Memory	FLASH: NAND 256MB; DDR3 RAM: 512 MB	
Operating Frequency	2.4GHz, 5GHz-1, 5GHz-2	
WAN Ethernet Port	1 x 2.5G port	
LAN Ethernet Port	3 x RJ45 10/100/1000Mbps	
USB port	1 x USB 3.1 Gen 1	
Button	Power on/off, Reset, WPS	
Data Rate	802.11b	Up to 11Mbps
	802.11a/g	Up to 54Mbps
	802.11n	Up to 300Mbps
	802.11ac	2.4G 500Mbps, 5G-1 1083Mbps, 5G-2 4333Mbps (nitro-QAM)
	802.11ax	2.4G 574Mbps, 5G-1 1201Mbps, 5G-2 4804Mbps
Antenna	6 x Internal Antenna	
DC Power Adapter	AC Input : 100V~240V(50~60Hz), DC Output : 19V 1.75A	



ZenWiFi AX Key Selling Points

- ◆ **The Most Powerful Mesh Wi-Fi System** — AiMesh with full 802.11ax backhaul and 802.11ax front-haul for stronger Wi-Fi.
- ◆ **Ultra-fast Wi-Fi Speed** - ZenWiFi AX is a 802.11ax tri-band mesh router, data rate up to 6600Mbps , up to 2.2X faster than 802.11ac tri-band router.
- ◆ **Increase Capacity and Efficiency** – Supporting not only MU-MIMO but also OFDMA technique to efficiently allocate channels, communicate with multiple devices simultaneously.
- ◆ **Wider Coverage** – Supporting not only RangeBoost and AiRadar beamforming, but also UL-OFDMA to extend Wi-Fi Coverage.
- ◆ **Commercial-Grade Security** – AiProtection Pro blocks internet security threats for all your connected devices.



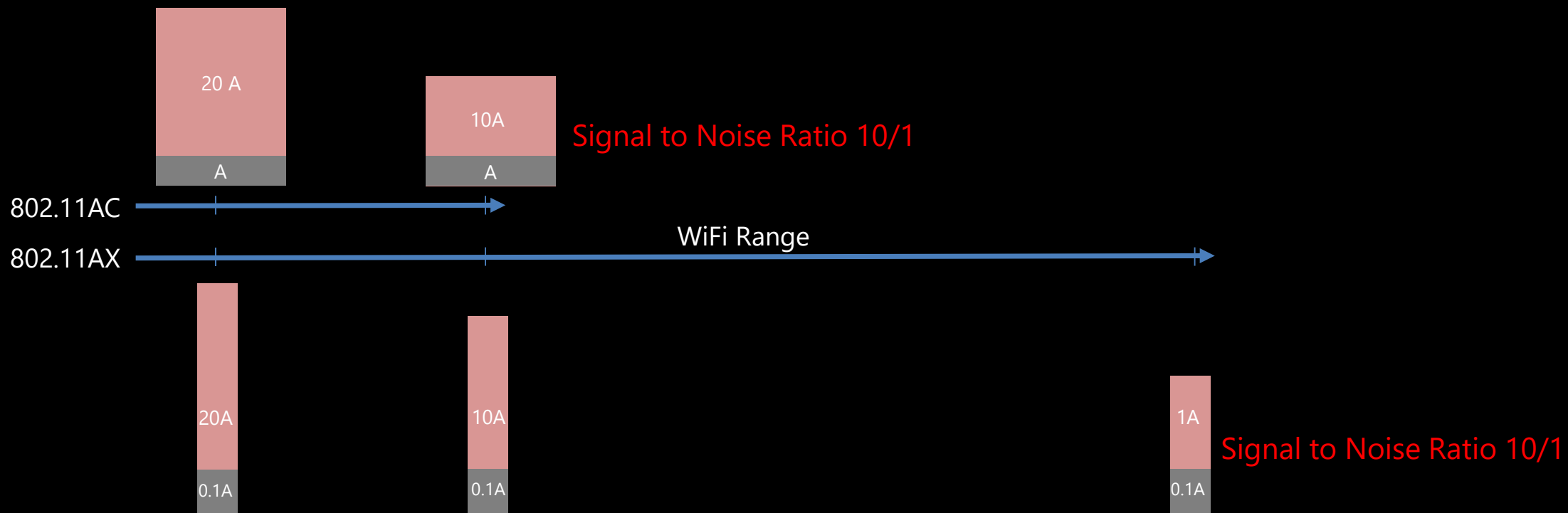
Technology Briefing

- **Coverage**
- **Speed**
- **Ease of Usage**

Technology Briefing - Coverage

- ◆ OFDMA
- ◆ AiRadar2.0 Beamforming
- ◆ Special Antenna design

- ✓ Dividing each channel into smaller sub-channels.
- ✓ Concentrate WiFi power, making WiFi signal traveling up to 80% farther.
- ✓ No worry to set plenty of IoT devices in every corner of your home.



Technology Briefing - Coverage

- ◆ OFDMA
- ◆ AiRadar2.0 Beamforming
- ◆ Special Antenna design

- ✓ Detect where your devices is.
- ✓ Focuses Wi-Fi signal on each connected device.
- ✓ Making your Wi-Fi faster, clearer and stronger.



Technology Briefing - Coverage

- ◆ OFDMA
- ◆ AiRadar2.0 Beamforming
- ◆ Special Antenna design

- ✓ Four antennas in vertical orientation
- ✓ Two antennas in 45 degree orientation
- ✓ Special Reserved space for separating antennas and circuit board to minimize the interference of the Wi-Fi signal.



Technology Briefing - Speed

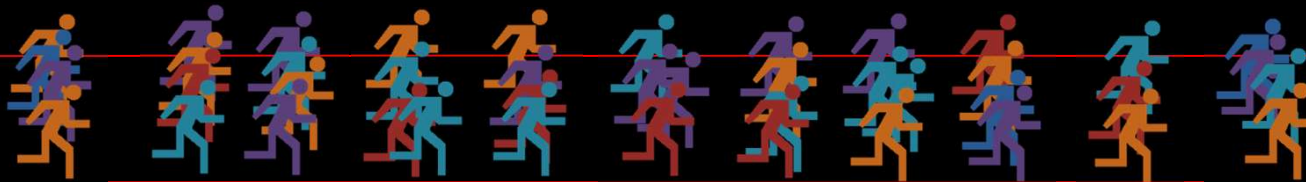
- ◆ OFDMA
- ◆ 4x4 160 MHz Backhaul
- ◆ 2.5G Ethernet Port

- ✓ OFDMA supersedes the OFDM* technology used in 802.11ac generation.
- ✓ Allows multiple users to be bundled together in each channel, no more queue for your data transmission.
**each channel can only be used by one user in the meantime.*

802.11AC



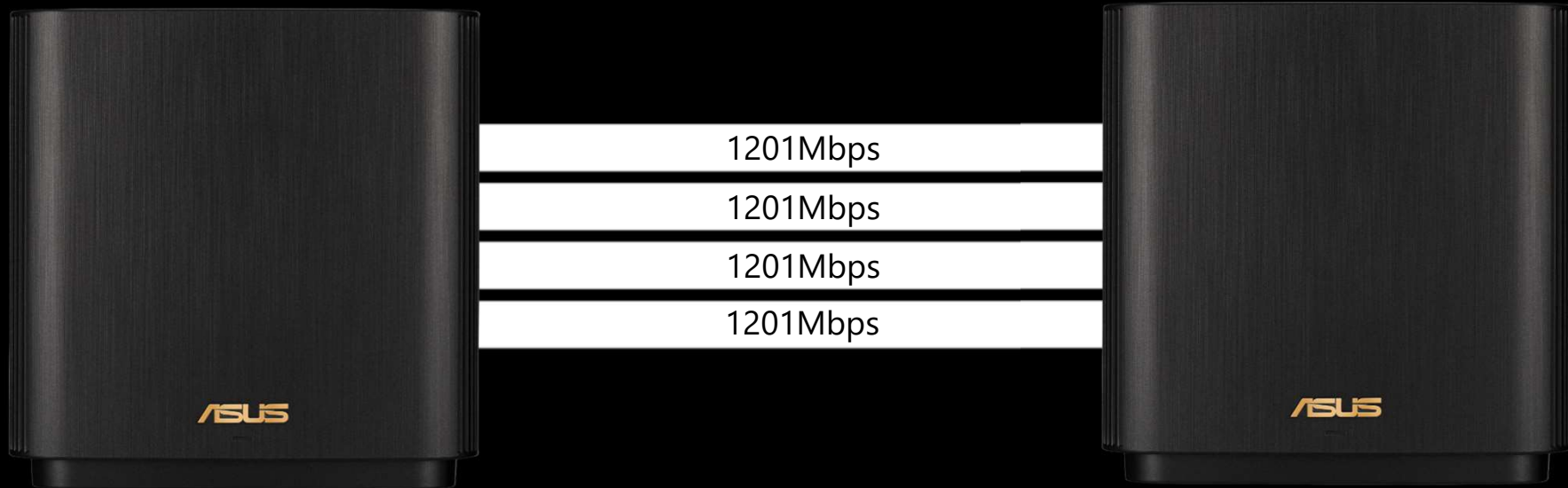
802.11AX



Technology Briefing - Speed

- ◆ OFDMA
- ◆ 4x4 4804Mbps Connection
- ◆ 2.5G Ethernet Port

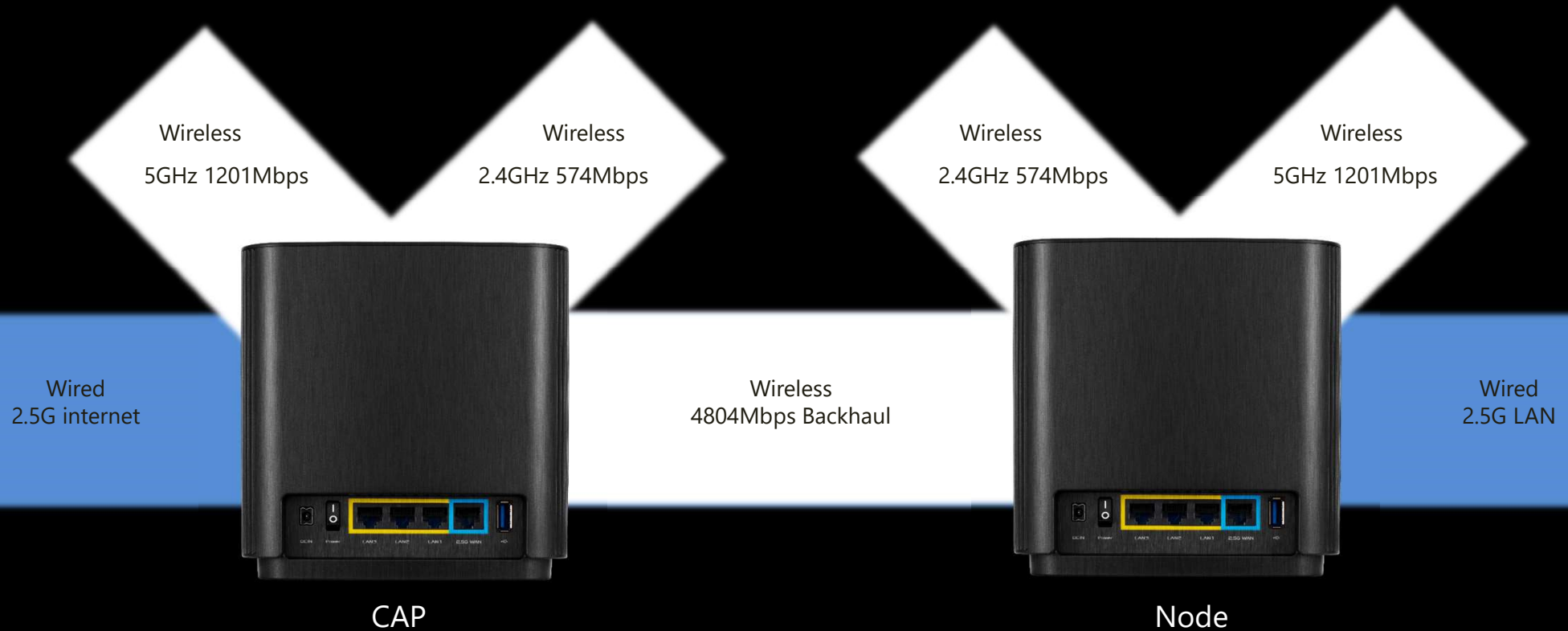
- ✓ Super Fast connection between Router & Node.
- ✓ 4x4 5Ghz multiple channels simultaneously transmitted
- ✓ Auto switch to the most suitable bandwidth to provide the fastest speed in any different situation.



Technology Briefing - Speed

- ◆ OFDMA
- ◆ 4x4 4804Mbps Connection
- ◆ 2.5G Ethernet Port

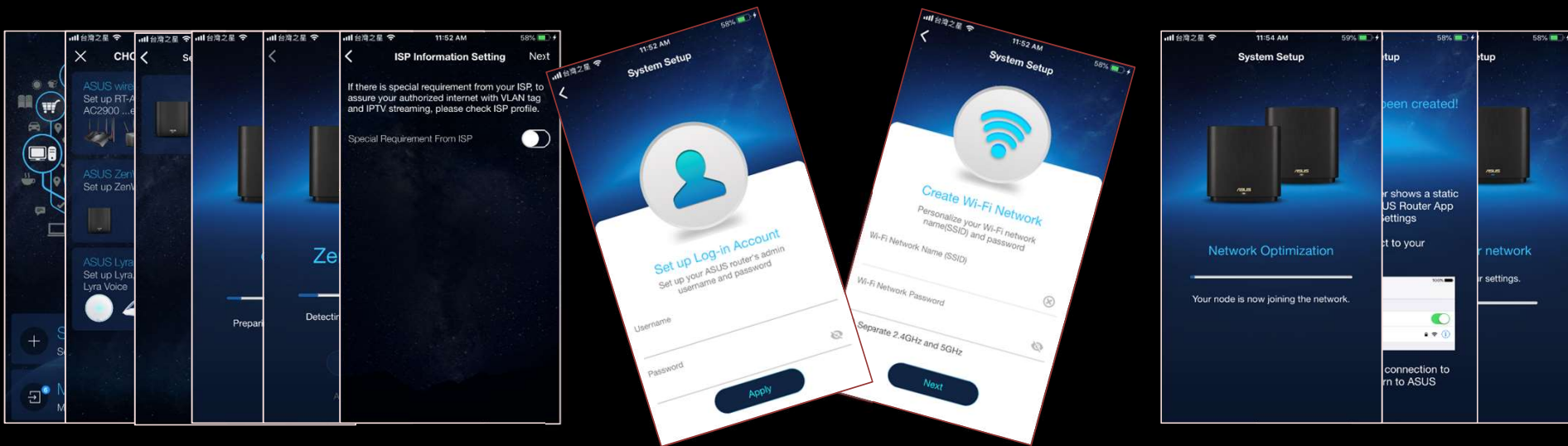
- ✓ 2.5G port for up to 2.5X faster data transfers than regular Ethernet.
- ✓ In Wireless connection, the 2.5G port on node may auto switch to LAN.



Technology Briefing – Ease of Useage

- ◆ Easy Setup
- ◆ New Management Interface

- ✓ Only 2 pages need to type word.
- ✓ Only 11 pages including the whole setting up progress.
- ✓ Only 3-5 minutes setting up time.



Technology Briefing – Ease of Usage

◆ Easy Setup

◆ New Management Interface

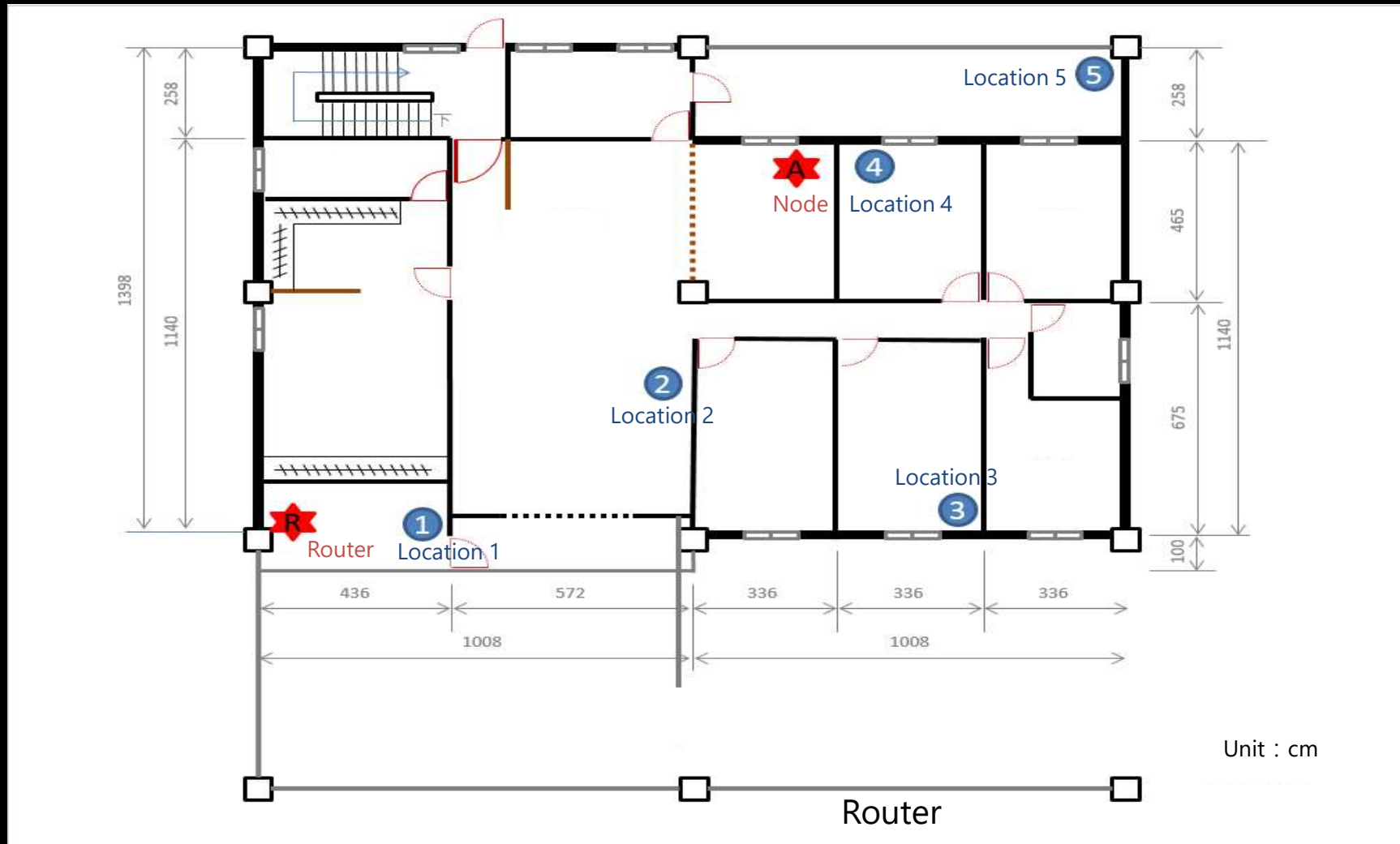
- ✓ Easily understand the signal status of your Mesh node location.
- ✓ Instantly show you the internet traffic status.
- ✓ Easily knows that which node are you connecting with.



Competitive Analysis

- **Test Environment**
- **Test Result**

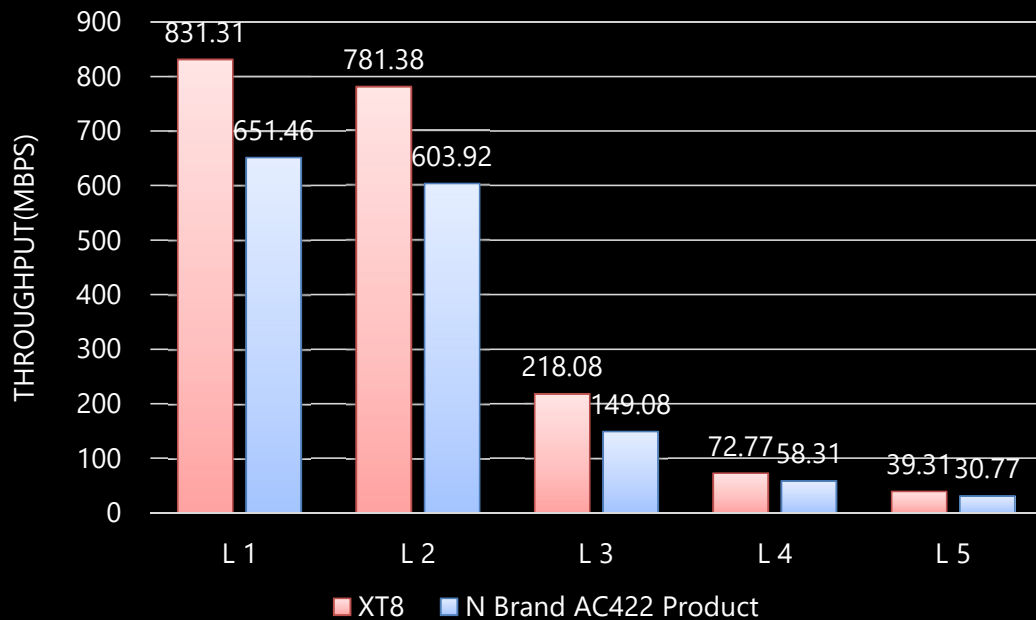
Competitive Analysis - Test Environment



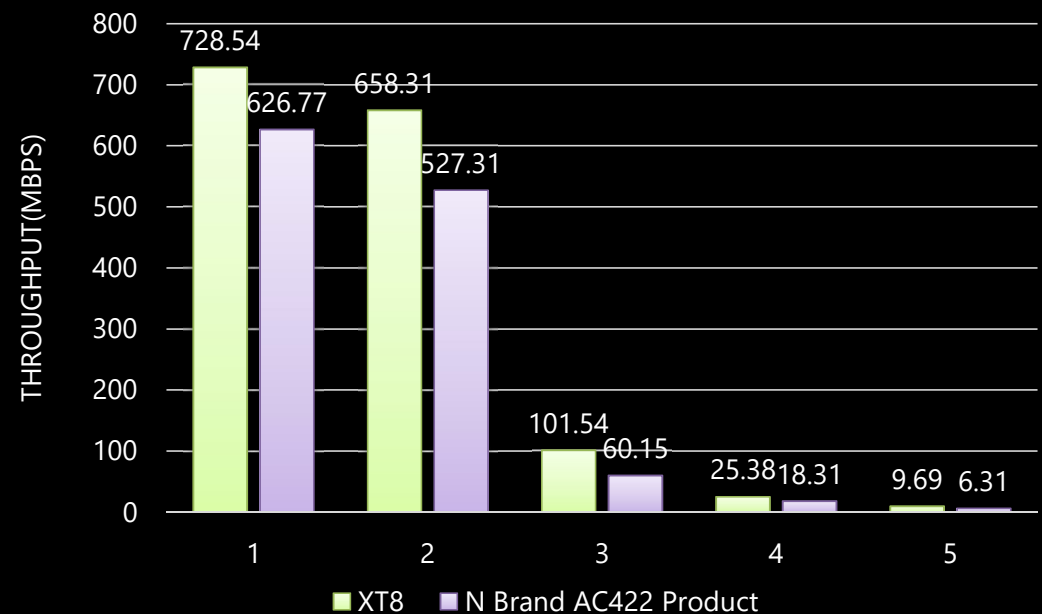
Competitive Analysis - Test Result 1

- In single router scenario, no matter in DL/UP, ZenWiFi AX speeds overcome Orbi AC422 in every single location.

Router Only - Downlink



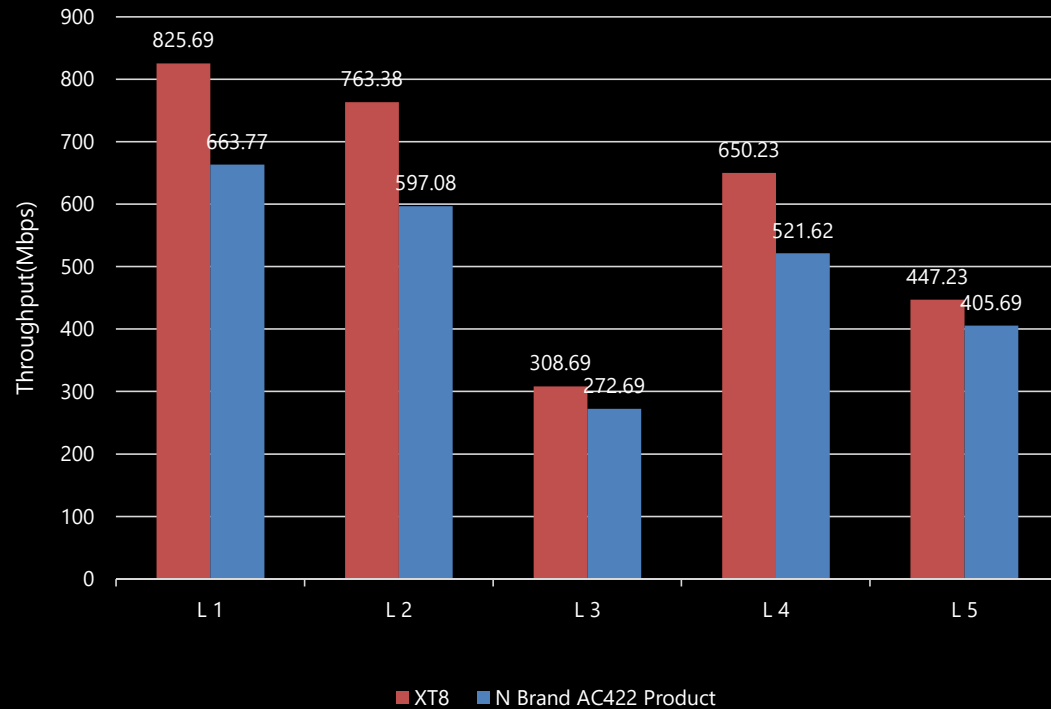
Router Only - Uplink



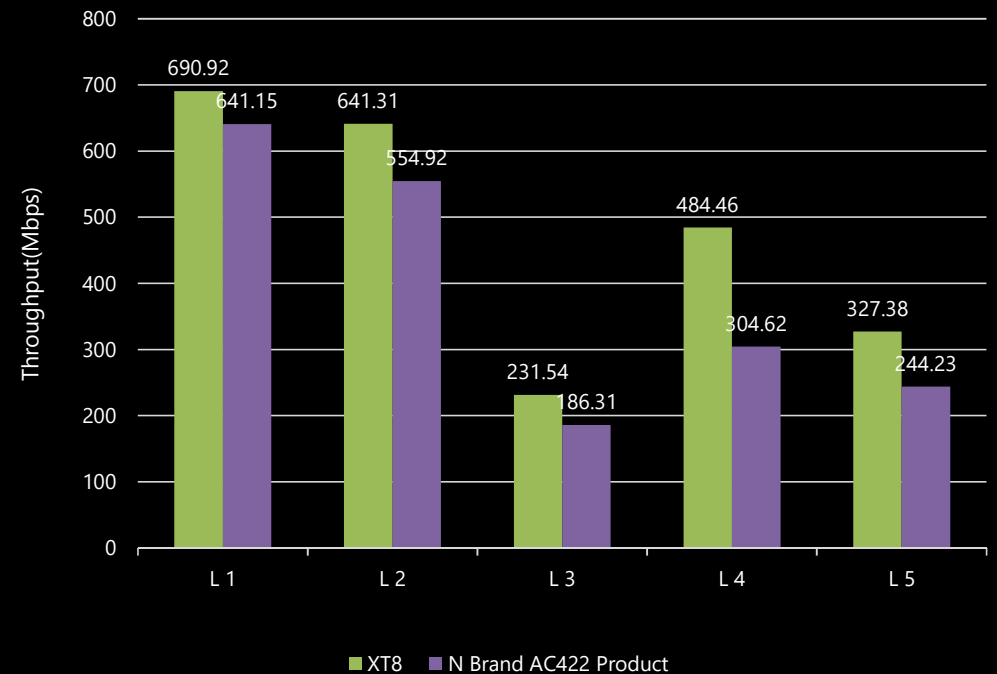
Competitive Analysis - Test Result 2

- In mesh system scenario, no matter in DL/UP, XT8 system performance overcome Orbi AC422 system in every single location.

Downlink throughput with Mesh Node A



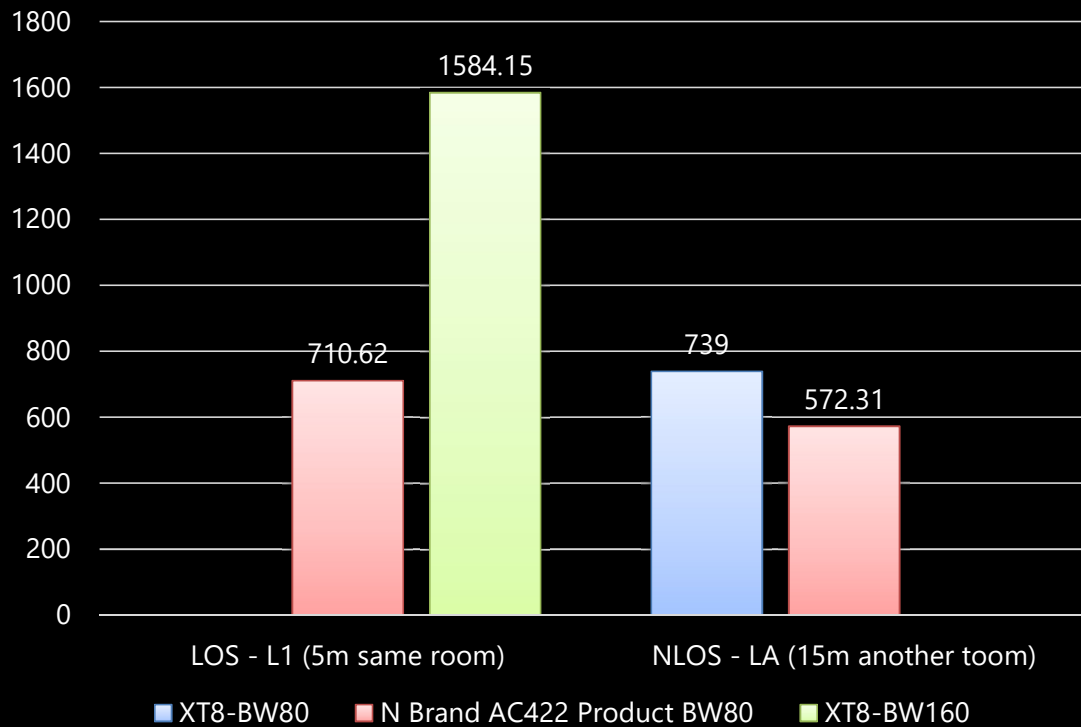
Uplink throughput with Mesh Node A



Competitive Analysis - Test Result 3

- In near site, XT8 get ultimate DL/UL speed in BW 160MHz, almost 2 times of Orbi BW 80MHz.

Backhaul Downlink throughput vs Netgear Orbi RBK50



Backhaul Uplink throughput vs Netgear Orbi RBK50

