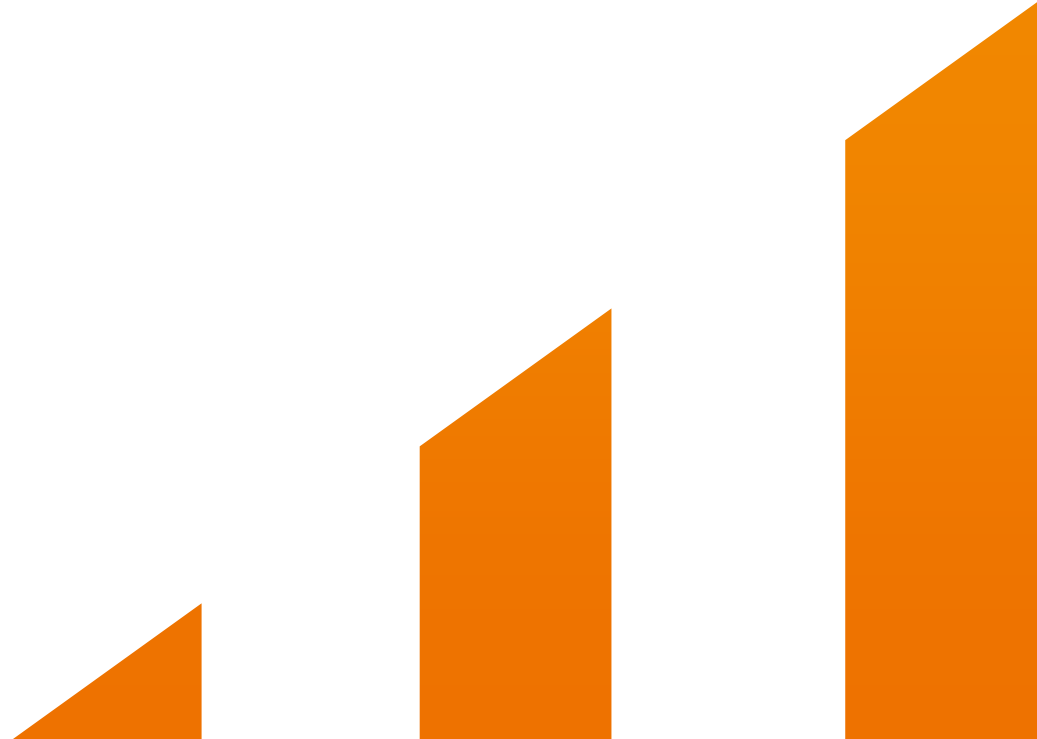




Next Generation WiFi

Leading the Wi-Fi Revolution

May 2025



Agenda

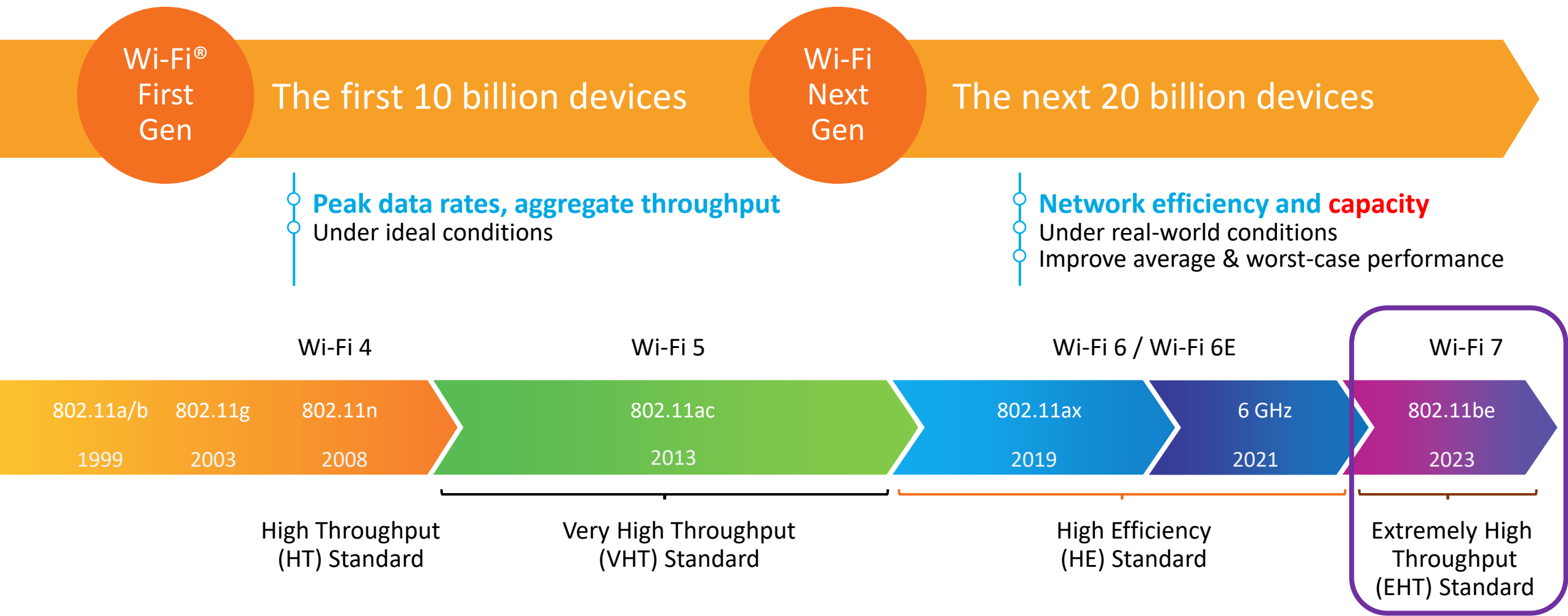
- Overview
- Spectrum vs Standard
- The RUCKUs Advantage

Overview

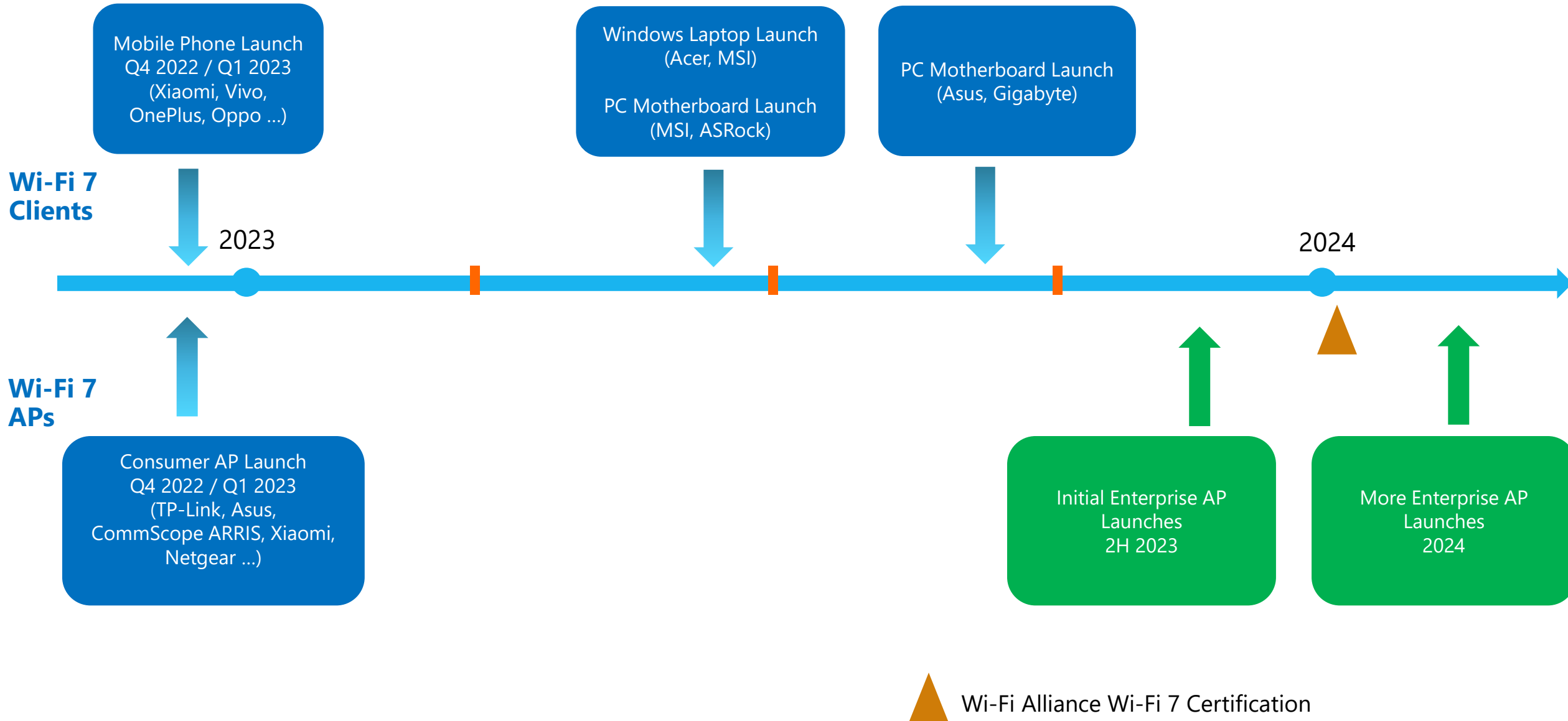
After 25 years, Wi-Fi is still evolving rapidly



Evolving from speed to capacity and predictability



Wi-Fi 7 Ecosystem Projected Timeline



New use cases and requirements

Low latency, affected by:

Distance
Speed
Media Contention

High Reliability

High speed

- Extended reality (AR/VR)
- Post pandemic Video Conferencing explosion
- Social Gaming & e-Sports
- 8K Streaming
- IoT/Operational Technology

Remote Research



Collaborative 3D design



Arena gaming



Operational Technology - IoT



Operational Technology - Manufacturing



Spectrum vs Standard

Wi-Fi 6

Attribute	Wi-Fi 6
Specification Status	September 2020
Freq Bands supported	2.4, 5 GHz
Maximum Spatial Streams	8x8
Highest Modulation	1024 QAM
Maximum Channel Width	160 MHz
Max PHY Rate	9.6 Gbps

Wi-Fi 6 vs. Wi-Fi 6E

Attribute	Wi-Fi 6	Wi-Fi 6E
Specification Status	September 2020	January 2021
Freq Bands supported	2.4, 5 GHz	6 GHz
Maximum Spatial Streams	8x8	
Highest Modulation	1024 QAM	
Maximum Channel Width	160 MHz	
Max PHY Rate	9.6 Gbps	

Wi-Fi 6 vs. Wi-Fi 6E vs. Wi-Fi 7 Comparison

Attribute	Wi-Fi 6	Wi-Fi 6E	Wi-Fi 7
Specification Status	September 2020	January 2021	Draft 2.0 (May 2022)
Freq Bands supported	2.4, 5 GHz	6 GHz	2.4, 5, 6 GHz
Maximum Spatial Streams	8x8		16x16
Highest Modulation	1024 QAM		4096 QAM
Maximum Channel Width	160 MHz		320 MHz
Max PHY Rate	9.6 Gbps		46.1 Gbps

Wi-Fi 6 vs. Wi-Fi 6E vs. Wi-Fi 7 Comparison

Attribute	Wi-Fi 6	Wi-Fi 6E	Wi-Fi 7
Specification Status	September 2020	January 2021	Draft 2.0 (May 2022)
Freq Bands supported	2.4, 5 GHz	6 GHz	2.4, 5, 6 GHz
Maximum Spatial Streams	8x8		16x16
Highest Modulation	1024 QAM		4096 QAM
Maximum Channel Width	160 MHz		320 MHz
Max PHY Rate	9.6 Gbps		46.1 Gbps

Is the migration to WiFi 7 necessary today?

- **Quick answer:
It depends**

- **Consider implementation of hybrid technologies**
- **Wait until we have more WiFi 7 devices available**
- **Consider doing an upgrade of your cabling and switching infrastructure first**

RUCKUS is ready to deploy a complete WiFi 7 infrastructure today




RUCKUS Wi-Fi 6/6E AP Portfolio



	Good	Better	Best
Indoor	<div><p>R350 Wi-Fi 6 2x2:2</p><p>IoT Ready</p><p>1.8 Gbps</p></div>	<div><p>Tri-Band 6GHz</p><div><p>R550 Wi-Fi 6 2x2:2</p><p>IoT Onboard</p><p>1.8 Gbps</p></div><div><p>R560 Wi-Fi 6E 2x2:2 5GbE</p><p>IoT Onboard</p><p>4.7 Gbps</p></div><div><p>R650 Wi-Fi 6 4x4:4/2x2:2</p><p>IoT Onboard</p><p>2.5 Gbps</p></div></div>	<div><p>Tri-Band 6GHz</p><div><p>R750 Wi-Fi 6 4x4:4 2.5GbE</p><p>IoT Onboard</p><p>3.5 Gbps</p></div><div><p>R850 Wi-Fi 6 8x8:8 5GbE</p><p>IoT Onboard</p><p>5.9 Gbps</p></div><div><p>R760 Wi-Fi 6E 4x4:4 10GbE</p><p>IoT Onboard</p><p>8.35 Gbps</p></div></div>
Outdoor	<div><p>T350/350se Wi-Fi 6 2x2:2</p><p>IoT Onboard</p></div>		<div><p>T750/T750se Wi-Fi 6 4x4:4 2.5GbE</p><p>IoT Onboard</p></div>
Specialty	<div><p>H350 Wi-Fi 6 2x2:2, 2 Port Switch</p><p>IoT Onboard</p></div>	<div><p>H550 Wi-Fi 6 2x2:2, 4 Port Switch</p><p>IoT Onboard Dual Concurrent</p></div>	

RUCKUS Wi-Fi 7 AP Portfolio



	Good	Better	Best
Indoor		<div><div>Tri-Band 6GHz</div><div></div><div><div>R670</div><div>Wi-Fi 7</div><div>2x2:2 5GbE</div></div><div><div>IoT Onboard</div><div>9.34 Gbps</div></div></div> <div><div>NEW</div><div>Q3'24</div></div>	<div><div>Tri-Band 6GHz</div><div></div><div><div>R770</div><div>Wi-Fi 7 10GbE</div><div>2X2/4x4/2x2</div></div><div><div>IoT Onboard</div><div>12.22 Gbps</div></div></div> <div><div>Introduced On Q4'23</div></div>
Outdoor		<div><div>Tri-Band 6GHz</div><div></div><div><div>T670</div><div>Wi-Fi 7</div><div>2x2:2 5GbE</div></div><div><div>9.34 Gbps</div></div></div> <div><div>NEW</div><div>Q3'24</div></div>	
Specialty			

ICX 8200 Switch – Designed for 6 GHz

- **Maximum flexibility and connectivity options:** Gigabit, Multigigabit edge ports and Fiber to the Room, optimized for latest generation Wi-Fi 6/6E/7 AP deployments with multigigabit ports. 1/2.5/5/10 Gbps Copper ports, 1G SFP and 10G SFP+ fiber ports
- **Power next generation APs and PoE devices:** PoE+ 802.3at, 30W per port on all ports. PoE++ 802.3bt, 60/90W on multigigabit ports and up to 1480W PoE budget with two power supplies
- **25 GbE uplinks/stacking offers maximum performance and future-proofing:** Up to 8x 1/10/25GbE SFP28 fiber ports for uplink and/or stacking
- **Advanced L3 routing for flexibility:** IPv4 and IPv6 L3 routing. Static routes; RIP, OSPF, VRRP, VRF, GRE, PIM, PBR
- **Enhanced availability:** Redundant, load-sharing hot-swap power supplies and fans on specific models
- **Services and Support Included:** 3 years of remote TAC support included with every ICX 8200 model and Limited lifetime warranty
- **Enhanced Security and data privacy:** VXLAN* support for advanced network segmentation and data confidentiality



Be **innovative** and
deliver the **right**
technology for the job
while securely
connecting business
applications



Innovation with a purpose

THANK YOU!



© 2023 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see <https://www.commscope.com/trademarks> Wi-Fi, Wi-Fi 4, Wi-Fi 5, Wi-Fi 6, Wi-Fi 6E and Wi-Fi 7 are trademarks of the Wi-Fi Alliance. [Note: additional TM notices may be needed for the Wi-Fi Certification marks]. Bluetooth is a trademarks of Bluetooth SIG, Inc. Zigbee and Matter are trademarks of the Connectivity Standards Alliance. Thread is a trademark of the Thread Group, Inc. All other product names, trademarks and registered trademarks are property of their respective owners.