

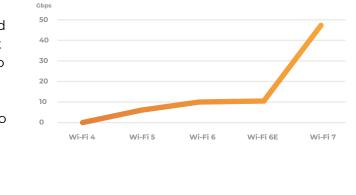
"SEVEN BENEFITS OF WI-FI 7 FOR HIGHER EDUCATION "

With the introduction of Wi-Fi 7, universities and college campuses can accommodate a greater number of devices and applications to improve student life. From collaborative learning to smart buildings with enhanced security systems, Wi-Fi 7 provides the capacity, efficiency and performance needed to deliver seamless high-speed internet connectivity across the campus. Here are seven ways in which higher education networks can benefit from adopting Wi-Fi 7 network technology sooner rather than later.



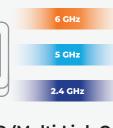
Ultimate performance

With the IEEE labeling the newest Wi-Fi® standard as Extremely High Throughput (EHT), you can rest assured that live video streaming and online video gaming will see real benefits. Thanks to wider channels and greater 6 GHz capacity gains, peak rates with Wi-Fi 7 are capable of delivering close to five times greater throughput than previous generation Wi-Fi 6 technology.



Wi-Fi 7 5x Increase in Throughput







multi-link operation (MLO), Wi-Fi 7 helps create a more

Reliable connections

stable and reliable network. Through wireless link redundancy, aggregation and selection, Wi-Fi 7 is more agile and navigates signal interference, obstacles and varying levels of congestion with ease—helping clients enjoy a strong connection.

By utilizing multiple bands simultaneously through



With Punctured Transmission, also known as Preamble Puncturing, Wi-Fi 7 makes the most efficient use of the

320 MHz channels by reclaiming all bandwidth before and after any interference to transmit and receive. Whether you're in the library, large lecture hall or football stadium, this feature neutralizes typical signal degradation caused by interference from legacy users of the channel.



Without Preamble Puncturing





Building on the Wi-Fi Protected Access™ 3 (WPA3™) security framework, Wi-Fi 7 offers a more powerful encryption algorithm to protect data transmitted over the

Robust privacy and

data security

even defend against offline dictionary attacks—making it more resistant to brute-force attempts to crack passwords and allowing students, faculty and administrators to feel secure in times when ransomware is on the rise.

network. Authentication and encryption mechanisms



If you thought your existing Wi-Fi was low latency, then prepare to be blown away. With MLO and preemptive prioritization, Wi-Fi 7 delivers enhanced Quality of Service (QoS), allowing demanding low-latency applications to run

their fastest ever. Wi-Fi 7 technology shaves off time you

never knew you had to help you live in the present.





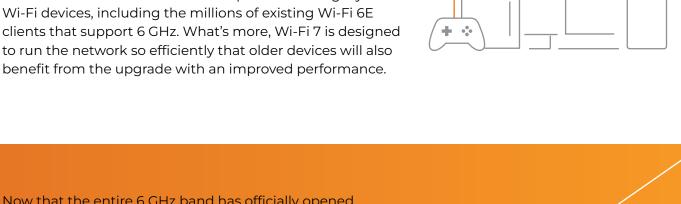


which to run more IoT devices without log jamming the network. From lighting and environmental controls to security cameras and alarms, Wi-Fi 7 provides networks with more usable spectrum that can support

With efficient use of the added 6 GHz spectrum and its wider channels, Wi-Fi 7 now offers more bandwidth in

with IoT

more IoT automation.



Despite all the trailblazing Wi-Fi 7 accomplishments, the new standard is still backward compatible with legacy Wi-Fi devices, including the millions of existing Wi-Fi 6E

to run the network so efficiently that older devices will also benefit from the upgrade with an improved performance.

Now that the entire 6 GHz band has officially opened, upgrading your higher education network to Wi-Fi 7 is a no-brainer. As new students arrive with Wi-Fi 6E capable devices—and with 233 million new Wi-Fi 7 devices expected in 2024*—migrating your network to Wi-Fi 7 today provides your staff, faculty and students with

excellent performance. One of the simplest ways to invite Wi-Fi 7 onto your campus is by deploying **RUCKUS R770** access points (APs). These tri-band APs operate at 2.4 GHz, 5 GHz, and 6 GHz frequency simultaneously, resulting in a maximum physical data rate of a staggering 12 Gbps. In addition, these APs continue to include our unique patented technologies

7, visit us online or call your local sales professional.

To learn more about how to migrate your network to Wi-Fi

such as the BeamFlex+® smart antenna system, ChannelFly® software and RUCKUS SmartMesh™



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About RUCKUS Networks

networking.

RUCKUS Networks builds and delivers purpose-driven networks that perform in the demanding environments of the industries we serve. Together with our network of trusted go-to-market partners, we empower our customers to deliver exceptional experiences to the guests, students, residents, citizens and employees who count on them.

Ready for a network that's easier to manage and maintain? Visit us online to learn more about how our innovations were created to make your life easier.

www.ruckusnetworks.com

Visit our website or contact your local RUCKUS representative for more information. https://www.wi-fi.org/news-events/newsroom/wi-fi-alliance-introduces-wi-fi-certified-7

*Source: Wi-Fi Alliance

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