

# Ruckus Wi-Fi 7: Superior Speed, Capacity, and Security

## Introducing the Next Generation of Wi-Fi Technology

Step into the future with Ruckus Wi-Fi 7 (802.11be). Following in the footsteps of Wi-Fi 6 (802.11ax), Wi-Fi 7 promises a significant leap in speed, efficiency, and overall performance.

Let's see the difference between other Wi-Fi and Wi-Fi 7:

	WiFi 5	WiFi 6	WiFi 6E	WiFi 7
IEEE	802.11ac	802.11ax		802.11be
Max data rate	3.5 Gbps	9.6 Gbps	9.6 Gbps	46 Gbps
Bands	5GHz	2.4GHz, 5GHz	2.4GHz, 5GHz, 6GHz	2.4GHz, 5GHz, 6GHz
Bandwidth	20 MHz, 40 MHz, 80 MHz, 80+80 MHz, 160 MHz			Up to 320 MHz
Modulation	256-QAM OFDM	1024-QAM OFDMA		4096-QAM
MIMO	4x4 MIMO	8x8 MU-MIMO		16x16 MU-MIMO
RU	N/A	RU		Multi-RUs
Security	WPA 2	WPA 3		WPA 3

## Why Choose Ruckus Networks' Wi-Fi 7 Solution?



Ruckus Wi-Fi 7 products are engineered with unique features that deliver superior performance in demanding environments. Here's what sets them apart:

- Tri-Radio Architecture:** Operates on 2.4 GHz, 5 GHz, and 6 GHz bands simultaneously, enhancing capacity and throughput for high-density environments.
- BeamFlex+ Technology:** Smart antennas dynamically adjust to improve signal strength and coverage across all bands, reducing interference.
- AI-Driven Network Assurance:** Real-time analytics and automated incident management keep your network reliable and efficient.
- Multi-Link Operation (MLO):** Multiple wireless links ensure high connection reliability and throughput for demanding applications like 8K video streaming and XR.
- Advanced QoS and Low Latency:** Supports real-time applications with deterministic latency and advanced Quality of Service features.
- High Throughput and Capacity:** 4K QAM and 320 MHz channels fully utilize the 6 GHz spectrum for peak performance in high-demand environments.
- Enhanced Security:** DP3K combines Dynamic Pre-Shared Key (DP3K) with WPA3 for robust security against unauthorized access.

## How to Upgrade Your Wi-Fi to Wi-Fi 7?

### Alpha Care™

Services can help you deliver a top-tier Wi-Fi 7 network with:

- Expert Planning and Design:** Custom solutions tailored for your organization.
- Seamless Deployment and Integration:** Smooth transitions with minimal disruption.
- Optimization and Performance Tuning:** Ensure peak performance.
- Security and Compliance:** Protect your network with advanced security measures.
- Staff Training and 24/7 Support:** Keep your team informed and your network running smoothly.
- Future-Proofing and Scalability:** Prepare your network for tomorrow's demands.

## Contact Us Now to Learn More!

Call us at **03-8060 3836** or reach out to your account manager.

### ALPHAMATIC SYSTEMS SDN BHD

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