HAS YOUR ORGANIZATION OUTGROWN YOUR WI-FI?

More devices than ever. Bandwidth-hungry video applications. Internet of Things (IoT). Constant demand for mobile connectivity. They add up to a perfect storm of technology trends—and your Wi-Fi better be ready for it. The days when a consumer-grade Wi-Fi device could meet most small business needs are over. Today, even smaller organizations need fast, reliable, always-on connectivity for dozens or even hundreds of devices. At the same time, small and midsize businesses don't have the time (or often, the in-house IT expertise) to wrestle with complex configurations and installations that require a PhD to get right.

Want blazing-fast Wi-Fi performance? Simple installation and management? Business-class security and resiliency? Enterprise-class features? And all at an affordable cost? Welcome to Ruckus Unleashed. These access points (APs) use our patented technologies to deliver Ruckus’ industry-leading Wi-Fi performance, but in a package designed and priced for small and medium-size businesses (SMBs) and organizations.
INTRODUCING RUCKUS UNLEASHED

Ruckus Unleashed is a high-performance, simple-to-setup, easy-to-manage and affordable portfolio of access points. With built-in controller functionality, there’s no need to invest in a separate appliance. You can manage your entire network from your phone or web browser. Deploying at multiple sites? Manage all your Wi-Fi networks from one place through the Unleashed Multi-Site Manager. You can get your network up and running in under 5 minutes—no complex configurations, and no expert installers required.

Ruckus Unleashed APs make Wi-Fi easy for SMBs, and feature patented Ruckus technologies that enable us to consistently beat the competition. With patented Ruckus innovations like BeamFlex+™, ChannelFly™ and SmartMesh™, Unleashed APs deliver higher speeds, better coverage and more reliable connections to every device, every time.

Ruckus Unleashed APs also come packed with enterprise-class features that are easy to configure and manage. Easily set up secure guest access with full-featured Guest Services. Monitor and optimize network performance for over 2,200 applications with Application Visibility and Control. Lock down access with enterprise-grade security—without the enterprise-scale complexity—using DPSK. And build a resilient Wi-Fi network that lets you continue to access printers and other devices even if the internet—or one of the APs—goes down.

Ruckus Unleashed APs deliver all of this and more at an affordable price. And if your business grows and you need to move to a controller- or cloud-based infrastructure, you can—without having to overhaul your infrastructure. Migrate to Ruckus ZoneDirector™ Controllers, Ruckus SmartZone™ Controllers or Ruckus Cloud down the road—using the same Unleashed APs.
WHERE CAN RUCKUS UNLEASHED DELIVER MAXIMUM VALUE?

Ruckus Unleashed APs are designed for small and midsize businesses with a single location or multiple locations with up to 25 APs and/or 512 concurrently connected clients per deployment. They're the perfect choice for smaller organizations that need to provide high-performing, enterprise Wi-Fi to employees, customers and guests without breaking the bank. Using the Unleashed mobile app, Unleashed APs can be managed by practically anyone—no specialized IT expertise required. And Unleashed APs are designed to easily scale up as the business grows—a key requirement for the 58% of SMBs that expect to grow within next 6–12 months.

The Ruckus Unleashed portfolio offers solutions for practically any SMB use case, at a wide range of price points. Choose from entry-level to ultra-high-performance APs, with both indoor and outdoor form factors and a variety of mounting options. Use Ruckus Unleashed for:

- Small offices (law firms, health clinics, insurance agencies and others) that need enterprise-class performance, advanced security and guest access, built-in resiliency and easy onboarding
- Multi-dwelling units (MDUs) such as large homes, small apartments and housing structures that want pervasive coverage
- Small and midsize retail outlets (stores, restaurants, coffee shops) that want more in-depth Application Visibility and Control in a solution that's easy to manage
- Smaller primary school classrooms and offices that want to unleash digital learning without compromising security
KEY BENEFITS AND FEATURES

BEST-IN-CLASS PERFORMANCE

BeamFlex+—Patented Adaptive Antenna Technology
Ruckus Unleashed APs integrate our patented, software-controlled adaptive antennas. BeamFlex+ antennas adapt automatically to client locations and environmental conditions, continually optimizing RF signals for every connected device, on a per-packet basis. It's the “secret sauce” that lets our APs maintain stronger connections and deliver better performance than the competition.

ChannelFly—Machine Learning Auto Channel Selection
Most APs can switch channels when the one they're using to connect with a given device gets congested. Only Ruckus APs with ChannelFly technology, however, use machine learning and specialized algorithms to identify the best alternate channel before switching over. Combined with BeamFlex+ adaptive antenna technology, ChannelFly delivers substantially higher throughput than competing APs.

SmartMesh—Self-Forming, Self-Healing Mesh
SmartMesh makes it simple to blanket every corner of your space with reliable Wi-Fi coverage—while eliminating the need for cumbersome radio planning and expensive cabling to every AP. Just check the “Zero Touch Mesh” box in the management app, and it automatically establishes wireless mesh connections between individual APs. Ruckus Unleashed APs use our patented smart antenna technology to create strong, reliable mesh links. And if a link ever fails, the network heals itself automatically.

THE SMARTER SMB SOLUTION

Install in Minutes
Ruckus Unleashed APs can be installed in under 5 minutes from a laptop browser (e.g., Chrome, Safari) or from iPhone and Android mobile devices. Configure just one “Master AP,” and you can automatically push that configuration securely to all the other APs in the network with the “Zero Touch Mesh” features.

Easy to Manage
You can manage smaller Unleashed networks from anywhere in the world with the free Unleashed Mobile app. The app's dashboard puts all the essential information about your network, and provides access to all key administrative tasks and troubleshooting options, right at your fingertips.

Lower Capital and Operational Costs
Unleashed APs come with controller functions built in. You don’t need separate controller appliances or access point licenses, so the upfront costs are much lower than other business-class APs. Unleashed networks are also designed to be simple to deploy and manage—no specialized network or wireless expertise required.

Network Investment Protection
When you deploy Ruckus Unleashed APs, you're making an investment that will continue to serve your business as you grow. Expand across multiple locations with the Unleashed Multi-Site Manager. And if your business grows even more, you can move up to a controller- or cloud-based solution using the same Unleashed APs you've already deployed.
ENTERPRISE-GRADE FEATURES
Ruckus Unleashed APs come loaded with enterprise-grade features to customize, optimize and secure your Wi-Fi networks and deliver great user experiences. Key features are highlighted below. Detailed list of features is available at the end of the data sheet.

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guest Services</td>
<td>Give guests secure, high-performance Wi-Fi access, while isolating their traffic from the private business network easily. Customize your guest Wi-Fi portal with your logo, brand and messages. Provide Wi-Fi access through Guest Passes, or have guests authenticate using social media accounts such as Facebook to eliminate the hassle (and security holes) of sharing Wi-Fi passwords.</td>
</tr>
<tr>
<td>Application Visibility and Control</td>
<td>Monitor the network usage patterns of over 2,200 applications with Deep Packet Inspection, and find out which ones are consuming the most resources. You can define application-specific access rules (such as limiting access to YouTube or social media), or even limit Wi-Fi speeds for specific applications and/or SSIDs.</td>
</tr>
<tr>
<td>Resiliency</td>
<td>Continue to access printers and other network devices even if internet connectivity fails. Users stay connected to the Wi-Fi network even if one or several APs fail for any reason, as long as at least one AP in the network is online.</td>
</tr>
<tr>
<td>Security</td>
<td>Use DPSK to eliminate the risks of shared passwords and lock down access to the Wi-Fi network—without complex configurations. In addition, secure your network and protect your clients with WPA encryption, client isolation and 802.1x for RADIUS and Active Directory.</td>
</tr>
<tr>
<td>Zero Touch Mesh</td>
<td>Add additional Unleashed APs to the existing network securely over the air. Dramatically speed up and simplify the installation of Unleashed network.</td>
</tr>
<tr>
<td>Multiple Language Support</td>
<td>Create and manage your Wi-Fi network in your own language. Ruckus Unleashed currently supports 13 languages.</td>
</tr>
<tr>
<td>Social Login</td>
<td>With the built-in Social Login feature, you can sign into the Unleashed mobile app using your Gmail, Facebook or Twitter account, and link your Unleashed Wi-Fi network. From that point on, you can manage your Unleashed network from anywhere in the world using your social login.</td>
</tr>
<tr>
<td>Remote Management</td>
<td>Need a quick answer or help troubleshooting a network issue? Just tap the “Invite for Remote Management” option on the mobile app, and send a text message or email with a link containing all the Unleashed network information to an expert.</td>
</tr>
<tr>
<td>Zero IT</td>
<td>Easily onboard customers or employees onto your Wi-Fi network through a simple, self-service portal.</td>
</tr>
<tr>
<td>SSID Rate-Limiting</td>
<td>If you want to limit data speeds for particular group of users (such as guest users), you can create a separate SSID with a data rate “speed limit” that you define.</td>
</tr>
</tbody>
</table>

Unleashed is a perfect fit for deployments with up to 25 APs/512 clients.
## Unleashed Access Points

The tables below illustrate the complete portfolio of Ruckus Unleashed APs, including indoor, outdoor and specialty form factors. Click the AP model number to review detailed features and specs.

### Indoor

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Hardware Specs</th>
<th>MU-MIMO</th>
<th>Data Speed</th>
<th>Concurrent Users</th>
<th>Antenna Patterns (Per Band)</th>
<th>Ethernet Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>R500</td>
<td>802.11ac, 2x2:2</td>
<td>No</td>
<td></td>
<td>512</td>
<td>512</td>
<td>2x1GbE</td>
</tr>
<tr>
<td>R600</td>
<td>802.11ac, 3x3:3</td>
<td>No</td>
<td></td>
<td>1302</td>
<td>150</td>
<td>2x1GbE</td>
</tr>
<tr>
<td>R310</td>
<td>802.11ac, 2x2:2</td>
<td>No</td>
<td></td>
<td>512</td>
<td>64</td>
<td>1x1GbE</td>
</tr>
<tr>
<td>R510</td>
<td>802.11ac Wave2, 2x:2</td>
<td>Yes</td>
<td>867 Mbps (5GHz) 300 Mbps (2.4GHz)</td>
<td>100</td>
<td>64</td>
<td>2x1GbE</td>
</tr>
<tr>
<td>R610</td>
<td>802.11ac Wave2, 3x:3</td>
<td>Yes</td>
<td>1300 Mbps (5GHz) 600 Mbps (2.4GHz)</td>
<td>512</td>
<td>512</td>
<td>2x1GbE</td>
</tr>
<tr>
<td>R710</td>
<td>802.11ac Wave2, 4x:4</td>
<td>Yes</td>
<td>1733 Mbps (5GHz) 800 Mbps (2.4GHz)</td>
<td>512</td>
<td>4000+</td>
<td>2x1GbE</td>
</tr>
<tr>
<td>R720</td>
<td>802.11ac Wave2, 4x:4</td>
<td>Yes</td>
<td>1733 Mbps (5GHz) 800 Mbps (2.4GHz)</td>
<td>512</td>
<td>4000+</td>
<td>1x1GbE 1x2.5GbE</td>
</tr>
</tbody>
</table>

### Outdoor

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Hardware Specs</th>
<th>MU-MIMO</th>
<th>Data Speed</th>
<th>Concurrent Users</th>
<th>Antenna Patterns (Per Band)</th>
<th>Ethernet Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>T300</td>
<td>802.11ac, 2x2:2</td>
<td>No</td>
<td></td>
<td>512</td>
<td>64</td>
<td>1x1GbE</td>
</tr>
<tr>
<td>T301</td>
<td>802.11ac, 2x2:2</td>
<td>No</td>
<td></td>
<td>512</td>
<td>8</td>
<td>1x1GbE</td>
</tr>
<tr>
<td>T310</td>
<td>802.11ac Wave2, 2x:2</td>
<td>Yes</td>
<td>867 Mbps (5GHz) 400 Mbps (2.4GHz)</td>
<td>512</td>
<td>64</td>
<td>1x1GbE</td>
</tr>
<tr>
<td>E510</td>
<td>802.11ac Wave2, 2x:2</td>
<td>Yes</td>
<td>867 Mbps (5GHz) 400 Mbps (2.4GHz)</td>
<td>512</td>
<td>64</td>
<td>1x1GbE</td>
</tr>
<tr>
<td>T610</td>
<td>802.11ac Wave2, 4x:4</td>
<td>Yes</td>
<td>1733 Mbps (5GHz) 800 Mbps (2.4GHz)</td>
<td>512</td>
<td>4000+</td>
<td>2x1GbE</td>
</tr>
<tr>
<td>T710</td>
<td>802.11ac Wave2, 4x:4</td>
<td>Yes</td>
<td>1733 Mbps (5GHz) 800 Mbps (2.4GHz)</td>
<td>512</td>
<td>4000+</td>
<td>2x1GbE</td>
</tr>
</tbody>
</table>

### Specialty

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Hardware Specs</th>
<th>MU-MIMO</th>
<th>Data Speed</th>
<th>Concurrent Users</th>
<th>Antenna Patterns (Per Band)</th>
<th>Ethernet Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>C110</td>
<td>802.11ac Wave2, 2x:2</td>
<td>Yes</td>
<td>867 Mbps (5GHz) 400 Mbps (2.4GHz)</td>
<td>512</td>
<td>4</td>
<td>2x10/100MbE 1x DOCSIS 3.0 modem port</td>
</tr>
<tr>
<td>H320</td>
<td>802.11ac Wave2, 2x:2</td>
<td>Yes</td>
<td>867 Mbps (5GHz) 150 Mbps (2.4GHz)</td>
<td>100</td>
<td>4</td>
<td>2x10/100MbE 1x1GbE</td>
</tr>
<tr>
<td>H510</td>
<td>802.11ac Wave2, 2x:2</td>
<td>No</td>
<td>867 Mbps (5GHz) 150 Mbps (2.4GHz)</td>
<td>100</td>
<td>4</td>
<td>5x1GbE</td>
</tr>
</tbody>
</table>
UNLEASHED MOBILE APP

Ruckus Unleashed networks are designed from the ground up to be easy to deploy and manage. The Unleashed mobile app makes things even simpler. Monitor, manage and upgrade your network from anywhere in the world. Everything you need to know, and all key administrative tasks, are always right at your fingertips.

Using the mobile app, you can install an Unleashed AP in under 5 minutes, and review all of the essential information about your network. See how many clients and APs are connected, ongoing network traffic and any important alerts at a glance. Quickly and easily create a new Wireless LAN or edit an existing network. See which applications are using the most data on the network, and create rules to deny access to any website. Need help? Simply tap the “Invite for Remote Management” option, and send a text message or email with a link containing all of your Unleashed network information to an expert.
### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SKU</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>R500</td>
<td>9U1-R500-XX00</td>
<td>Mid-range 802.11ac Wave 1 dual-concurrent AP with BeamFlex+</td>
</tr>
<tr>
<td>R600</td>
<td>9U1-R600-XX00</td>
<td>Mid-range 802.11ac Wave 1 dual-concurrent AP with BeamFlex+</td>
</tr>
<tr>
<td>R310</td>
<td>9U1-R310-XX00</td>
<td>Entry-level 802.11ac Wave 1 dual-concurrent AP with BeamFlex</td>
</tr>
<tr>
<td>R510</td>
<td>9U1-R510-XX00</td>
<td>Mid-range 802.11ac Wave 2 dual-concurrent AP with MU-MIMO and BeamFlex+</td>
</tr>
<tr>
<td>R610</td>
<td>9U1-R610-XX00</td>
<td>Mid-range 802.11ac Wave 2 dual-concurrent AP with MU-MIMO and BeamFlex+</td>
</tr>
<tr>
<td>R710</td>
<td>9U1-R710-XX00</td>
<td>High-end 802.11ac Wave 2 dual-concurrent AP with MU-MIMO and BeamFlex+</td>
</tr>
<tr>
<td>R720</td>
<td>9U1-R720-XX00</td>
<td>High-end 802.11ac Wave 2 dual-concurrent AP with MU-MIMO, BeamFlex+ and 2.5Gbps backhaul</td>
</tr>
<tr>
<td>T300</td>
<td>9U1-T300-XX00</td>
<td>Enterprise class 802.11ac AP with integrated omni antennas (5GHz)</td>
</tr>
<tr>
<td>T301n</td>
<td>9U1-T301-XX61</td>
<td>Enterprise class 802.11ac AP with narrow sector integrated antennas</td>
</tr>
<tr>
<td>T301s</td>
<td>9U1-T301-XX51</td>
<td>Enterprise class 802.11ac AP with 120° directional integrated antennas</td>
</tr>
<tr>
<td>T300e</td>
<td>9U1-T300-XX81</td>
<td>Enterprise class 802.11ac AP with integrated external antennas (5GHz)</td>
</tr>
<tr>
<td>T310c</td>
<td>9U1-T310-XX20</td>
<td>Entry-level 802.11ac Wave 2 outdoor AP series with integrated BeamFlex+ omni antennas, -20° C</td>
</tr>
<tr>
<td>T310d</td>
<td>9U1-T310-XX40</td>
<td>Entry-level 802.11ac Wave 2 outdoor AP series with integrated BeamFlex+ omni antennas, -40° C</td>
</tr>
<tr>
<td>T310e</td>
<td>9U1-T310-XX51</td>
<td>Entry-level 802.11ac Wave 2 outdoor AP series with integrated BeamFlex+ 120×30 deg sector antennas, -20° C</td>
</tr>
<tr>
<td>E510</td>
<td>9U1-E510-XX01</td>
<td>Embedded 802.11ac Outdoor Wave 2 Wi-Fi AP with External Beam-Flex+ Antennas</td>
</tr>
<tr>
<td>T610</td>
<td>9U1-T610-XX01</td>
<td>Mid-range 802.11ac Wave 2 omni-directional dual concurrent AP with BeamFlex+</td>
</tr>
<tr>
<td>T610s</td>
<td>9U1-T610-XX51</td>
<td>Mid-range 802.11ac Wave 2 120-degree sector dual concurrent AP with BeamFlex+</td>
</tr>
<tr>
<td>T710</td>
<td>9U1-T710-XX00</td>
<td>High-end 802.11ac Wave 2 omni-directional dual concurrent AP with BeamFlex+</td>
</tr>
<tr>
<td>T710s</td>
<td>9U1-T710-XX51</td>
<td>High-end 802.11ac Wave 2 120-degree sector dual concurrent AP with BeamFlex+</td>
</tr>
<tr>
<td>C110</td>
<td>9U1-C110-XX00</td>
<td>802.11ac Wave2 dual-concurrent wall plate with built-in DOCSIS 3.0 cable modem</td>
</tr>
<tr>
<td>H320</td>
<td>9U1-H320-XX00</td>
<td>802.11ac Wave 2 dual-concurrent wall switch with two 10/100MbE ports and BeamFlex+</td>
</tr>
<tr>
<td>HS10</td>
<td>9U1-H320-XX00</td>
<td>802.11ac Wave 2 dual-concurrent wall switch with five GbE ports and BeamFlex+</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** When ordering outdoor APs, you must specify the destination region by indicating -US, -WW, or -Z2 instead of XX. When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, or -UN instead of -XX.

For access points, -Z2 applies to the following countries: Algeria, Egypt, Israel, Morocco, Tunisia, and Vietnam.

For accessory ordering information, please visit the [Accessory Guide](#).
<table>
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<tr>
<th>FEATURES</th>
<th>Same-WLAN support for Multiple Social Media Logins</th>
</tr>
</thead>
<tbody>
<tr>
<td>802.1X EAP authentication using an external AAA server (RADIUS)</td>
<td>Self-Service Guest Pass</td>
</tr>
<tr>
<td>Access Control Lists</td>
<td>Smart Mesh</td>
</tr>
<tr>
<td>Application Recognition and control. Application based rate-limiting and QoS traffic shaping. The following pie charts are provided:</td>
<td>SNMP</td>
</tr>
<tr>
<td>• Top 10 clients by application</td>
<td>Social Media login (Facebook, Google, LinkedIn, Microsoft and WeChat)</td>
</tr>
<tr>
<td>• Top 10 applications used in the networks</td>
<td>The Unleashed Master AP can be configured in Gateway mode to provide routing, NAT and DHCP functions for all devices in a local area network, in addition to serving as the controller and serving clients.</td>
</tr>
<tr>
<td>• Top 10 applications used by each client</td>
<td>Troubleshooting</td>
</tr>
<tr>
<td>Automatic Master AP Selection: One Ruckus Unleashed AP serves as the &quot;Master AP,&quot; one of the member APs will take over controller functions if the Master is unreachable.</td>
<td>• SpeedFlex</td>
</tr>
<tr>
<td>Bonjour Gateway</td>
<td>• Client Connectivity</td>
</tr>
<tr>
<td>Client Renaming</td>
<td>• Internet Status</td>
</tr>
<tr>
<td>Client Isolation</td>
<td>• AP Ethernet Port Status</td>
</tr>
<tr>
<td>Client Fingerprinting and Device Access Policies</td>
<td>• AP Reboot Cause Reporting</td>
</tr>
<tr>
<td>DHCP server (configured manually from Unleashed Network Master AP)</td>
<td>Uniform Recovery SSID</td>
</tr>
<tr>
<td>Dynamic Pre-Shared Keys (DPSK)</td>
<td>Unleashed Multi-Site Manager connectivity</td>
</tr>
<tr>
<td>Dynamic VLAN</td>
<td>Up to 512 client devices supported (depending on encryption/auth method)</td>
</tr>
<tr>
<td>Guest Access WLANs</td>
<td>Up to 512 local users supported (on the internal database)</td>
</tr>
<tr>
<td>Hotspot (WISPr) WLANs</td>
<td>WLAN encryption/authentication options:</td>
</tr>
<tr>
<td>HTTP-based Captive Portal</td>
<td>• Open + None</td>
</tr>
<tr>
<td>HTTP/HTTPS redirect</td>
<td>• Open + None + MAC Auth</td>
</tr>
<tr>
<td>Layer 2 roaming</td>
<td>• Open + None + Web Auth</td>
</tr>
<tr>
<td>Management IP Interface</td>
<td>• Open + WPA2 + AES + PSK</td>
</tr>
<tr>
<td>Multi-language support</td>
<td>• Open + WPA2 + AES + DPSK</td>
</tr>
<tr>
<td>One-step firmware upgrades of the entire network from a single interface</td>
<td>• 802.1X + WPA2 + AES + AAA</td>
</tr>
<tr>
<td>Password Recovery</td>
<td>WLAN Prioritization</td>
</tr>
<tr>
<td>Preferred Master - Admins can configure an AP to serve as the &quot;preferred&quot; Unleashed Master AP. If the preferred Master is offline, another member AP will become the Master. When the preferred Master comes back online, it will resume the Unleashed Master role.</td>
<td>WLAN per radio</td>
</tr>
<tr>
<td>Radio Frequency (RF) management features:</td>
<td>Zero-IT support for automatic configuration of client Wi-Fi settings</td>
</tr>
<tr>
<td>• BeamFlex</td>
<td>Zero Touch Mesh</td>
</tr>
<tr>
<td>• ChannelFly</td>
<td></td>
</tr>
<tr>
<td>• Background Scanning</td>
<td></td>
</tr>
</tbody>
</table>