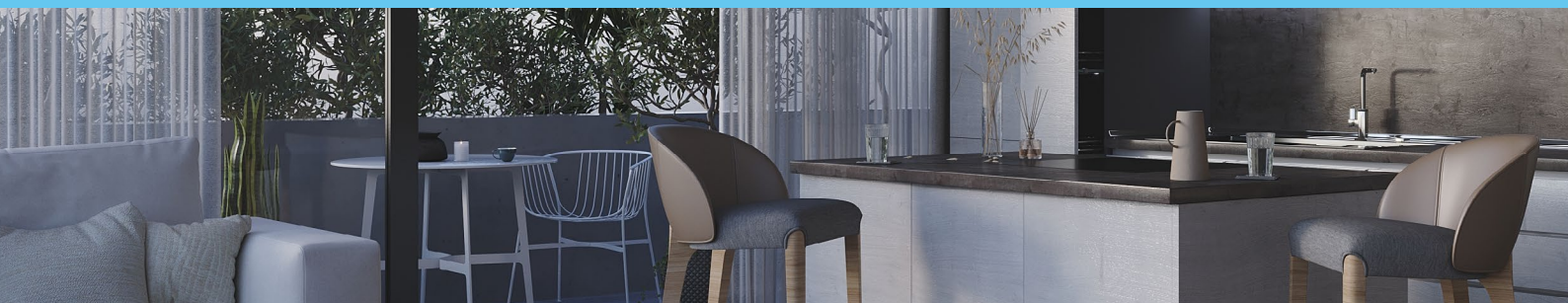


RIVI HORIZON RV15

Indoor Wi-Fi 6 (802.11ax) Access Point



OVERVIEW

Smaller properties demand connectivity that's both powerful and accessible. The RIVI Horizon RV15 is designed to deliver reliable Wi-Fi 6 (802.11ax) performance tailored to residential spaces, boutique hotels, and compact business environments. With a suite of RIVI's signature performance-enhancing technologies, the RV15 ensures seamless connectivity for high-bandwidth applications in an ultra-compact form factor. Offering robust throughput and interference mitigation, this access point redefines entry-level performance, making superior connectivity an attainable luxury for properties that value reliability without compromise.

The RV15 Horizon, RIVI's entry-level Wi-Fi 6 access point, is meticulously crafted to offer high-performance connectivity with a touch of luxury. Ideal for discerning clients with smaller properties or businesses, the RV15 delivers robust, consistent wireless coverage in a compact form, while benefiting from RIVI's signature design and advanced technology. Engineered for environments that value both aesthetic and functionality, the RV15 brings a new standard of performance to Wi-Fi solutions, ensuring seamless connectivity from a brand renowned for its high-end networking innovation.

The RV15 is a perfect fit for residential settings that require dependable, high-performance connectivity. Ideal for smaller homes, apartments, and compact properties, it offers seamless Wi-Fi 6 coverage, ensuring every room enjoys robust and reliable performance, all from a trusted name in luxury networking.

The RV15 Wi-Fi 6 AP incorporates patented technologies found only in the RIVI Wi-Fi portfolio.

- Improve throughput with ChannelFly®, which dynamically finds less congested Wi-Fi channels to use.
- Supports up to 128 clients and 8 SSIDs per AP.

The RV15 provides an ideal combination of features and performance for smaller environments at a truly accessible price.



RIVI HORIZON RV15

Indoor Wi-Fi 6 (802.11ax) Access Point

ACCESS POINT ANTENNA PATTERN

RIVI's superior antenna technology enables the best possible connection with every devices, delivering

This leads to:

- Better Wi-Fi coverage
- Reduced RF interference

Figure 1. RV15 2.4GHz Azimuth Antenna Patterns

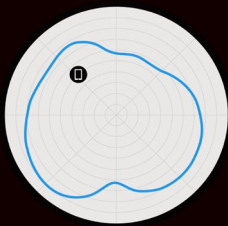


Figure 2. RV15 5GHz Azimuth Antenna Patterns

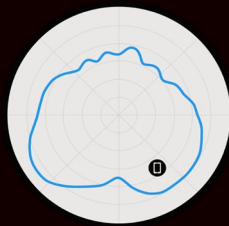


Figure 3. RV15 2.4GHz Elevation Antenna Patterns

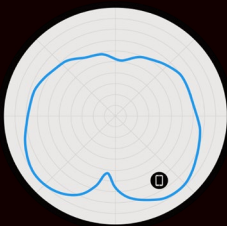
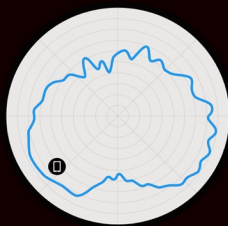


Figure 4. RV15 5GHz Elevation Antenna Patterns



BENEFITS



Cost Effective Solution for Smaller Spaces

The RV15 Wi-Fi 6 (802.11ax) access point is a cost effective solution that can deliver fast and reliable Wi-Fi services to up to 128 client devices.



Industry Leading Wi-Fi Performance

Patented RIVI technologies for performance optimisation and interference mitigation delivers superior user experience.



Mesh Networking

Dynamically create self-forming, self-healing network mesh with RIVI patented SmartMesh technology reducing expensive cabling, and complex configurations by checking a box.



Multiple Unified Management Options

Manage the RV15 from the cloud, with on-premises physical/virtual appliances, or without a controller.



Keep Existing Switches and Cables

Designed to operate on existing PoE switches and CAT 5e cabling to minimise costly power infrastructure upgrades.

R I V I HORIZON RV15

Indoor Wi-Fi 6 (802.11ax) Access Point

Wi-Fi	
Wi-Fi Standards	<ul style="list-style-type: none">IEEE 802.11a/b/g/n/ac/ax
Supported Rates	<ul style="list-style-type: none">802.11ax: 4 to 1774 Mbps802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2 for VHT20/40/80)802.11n: 6.5 Mbps to 300 Mbps (MCS0 to MCS15)802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6Mbps802.11b: 11, 5.5, 2 and 1 Mbps
Supported Channels	<ul style="list-style-type: none">2.4GHz: 1-135GHz: 36-64, 100-144, 149-165
MIMO	<ul style="list-style-type: none">2x2 SU-MIMO2x2 MU-MIMO
Spatial Streams	<ul style="list-style-type: none">2 streams SU/MU-MIMO 5GHz2 streams SU/MU-MIMO 2.4GHz
Radio Chains and Streams	<ul style="list-style-type: none">2x2:2 (5 GHz)2x2:2 (2.4GHz)
Channelization	<ul style="list-style-type: none">20, 40, 80MHz
Security	<ul style="list-style-type: none">WPA-PSK, WPA-TKIP, WPA2 , WPA3-Personal, WPA3-Enterprise, AES, WPA3, 802.11i, Dynamic PSKWIPS/WIDS
Other Wi-Fi Features	<ul style="list-style-type: none">WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/vHotspotHotspot 2.0Captive PortalWISPr

RF	
Antenna Gain (max)	<ul style="list-style-type: none">Up to 3dBi
Peak Transmit Power (aggregate across MIMO chains)	<ul style="list-style-type: none">2.4GHz: 22 dBm5GHz: 22 dBm
Minimum Receive Sensitivity ¹	<ul style="list-style-type: none">-101 dBm
Frequency Bands	<ul style="list-style-type: none">ISM (2.4-2.484GHz)U-NII-1 (5.15-5.25GHz)U-NII-2A (5.25-5.35GHz)U-NII-2C (5.47-5.725GHz)U-NII-3 (5.725-5.85GHz)

2.4GHZ RECEIVE SENSITIVITY (dBm)			
HT20		HT40	
MCS0	MCS7	MCS0	MCS7
-94	-70	-91	-72
HE20		HE40	
MCS0	MCS7	MCS0	MCS7
-94	-70	-91	-72

5GHZ RECEIVE SENSITIVITY (dBm)					
VHT20		VHT40		VHT80	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS7
-95	-76	-92	-73	-89	-70
HE20		HE40		HE80	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS7
-95	-76	-92	-73	-89	-70

2.4GHZ TX POWER TARGET	
Rate	Pout (dBm)
MCS0 HT20	19
MCS7 HT20	14
MCS8 VHT20	13.5
MCS9 VHT40	12
MCS11 HE40	11

5GHZ TX POWER TARGET	
Rate	Pout (dBm)
MCS0 VHT20	19
MCS7 VHT20	16
MCS0 VHT40, VHT80	19
MCS7 VHT40, VHT80	16
MCS11, HE20, HE40, HE80	12

PERFORMANCE AND CAPACITY	
Peak PHY Rates	<ul style="list-style-type: none">2.4GHz: 574Mbps5 GHz: 1200Mbps
Client Capacity	<ul style="list-style-type: none">Up to 128 clients per AP
SSID	<ul style="list-style-type: none">Up to 8 per AP (4 per band)

RUCKUS RADIO MANAGEMENT	
Wi-Fi Channel Management	<ul style="list-style-type: none">ChannelFlyBackground Scan Based
Client Density Management	<ul style="list-style-type: none">Adaptive Band BalancingClient Load BalancingAirtime FairnessAirtime-based WLAN Prioritization
SmartCast Quality of Service	<ul style="list-style-type: none">QoS-based schedulingDirected MulticastL2/L3/L4 ACLs
Mobility	<ul style="list-style-type: none">SmartRoam

¹ Rx sensitivity varies by band, channel width and MCS rate.

RIVI HORIZON RV15

Indoor Wi-Fi 6 (802.11ax) Access Point

NETWORKING	
Controller Platform Support	<ul style="list-style-type: none">Unleashed and Cloud
Mesh	<ul style="list-style-type: none">SmartMesh™ wireless meshing technology. Self-healing Mesh
IP	<ul style="list-style-type: none">IPv4, IPv6
VLAN	<ul style="list-style-type: none">802.1Q (1 per BSSID or dynamic per use based on RADIUS)VLAN PoolingPort-based
802.1x	<ul style="list-style-type: none">Authenticator & Supplicant
Policy Management Tools	<ul style="list-style-type: none">Access Control ListsDevice FingerprintingRate Limiting

PHYSICAL INTERFACES	
Ethernet	<ul style="list-style-type: none">1 x 1GbE port, RJ-45
USB	<ul style="list-style-type: none">Disabled

PHYSICAL CHARACTERISTICS	
Physical Size	<ul style="list-style-type: none">14.60(L) x 15.59(W) x 3.93(H) cm5.75(L) x 6.14(W) x 1.55(H) in
Weight	<ul style="list-style-type: none">368g (13 oz)
Mounting	<ul style="list-style-type: none">Wall, Drop ceiling, DeskSecure bracket (sold separately)
Physical Security	<ul style="list-style-type: none">Hidden latching mechanismT-bar Torx
Operating Temperature	<ul style="list-style-type: none">0 °C (32 °F) to 40 °C (104 °F)
Operating Humidity	<ul style="list-style-type: none">Up to 95%, non-condensing

POWER ³	
Power Supply	Maximum Power Consumption
PoE (Full Functionality)	<ul style="list-style-type: none">12.62W
DC input	<ul style="list-style-type: none">11.4 W

CERTIFICATIONS AND COMPLIANCE	
Wi-Fi Alliance ⁴	<ul style="list-style-type: none">Wi-Fi CERTIFIED™ a, b, g, n, acWi-Fi CERTIFIED 6™WPA3™ -Enterprise, PersonalWi-Fi Enhanced Open™Wi-Fi Agile Multiband™Passpoint®VantageWMM
Standards Compliance ⁵	<ul style="list-style-type: none">EN 60950-1 SafetyEN 60601-1-2 MedicalEN 61000-4-2/3/5 ImmunityEN 50121-1 Railway EMCEN 50121-4 Railway ImmunityIEC 61373 Railway Shock & VibrationUL 2043 PlenumEN 62311 Human Safety/RF ExposureWEEE & RoHSISTA 2A Transportation

SOFTWARE AND SERVICES	
Network Analytics	<ul style="list-style-type: none">Wi-Fi AI
Security and Policy	<ul style="list-style-type: none">Cloudpath

ORDERING INFORMATION	
RIV-RV15-UNL	<ul style="list-style-type: none">RV15 dual-band (5GHz and 2.4GHz concurrent) 802.11ax indoor wireless access point, 2x2:2 + 2x2:2 streams, adaptive antennas, dual ports, PoE support. Unleashed managed. Plenum rated. Includes adjustable acoustic drop ceiling bracket. Does not include power adapter (available separately).
RIV-RV15-CLD	<ul style="list-style-type: none">RV15 dual-band (5GHz and 2.4GHz concurrent) 802.11ax indoor wireless access point, 2x2:2 + 2x2:2 streams, adaptive antennas, dual ports, PoE support. Remote management (3 years hosted). Plenum rated. Includes adjustable acoustic drop ceiling bracket. Does not include power adapter (available separately).

CLOUD/ REMOTE MANAGEMENT LICENCE RENEWALS	
CLD-1-YR-RENEW	<ul style="list-style-type: none">1 year hosted remote management licence renewal, per AP
CLD-3-YR-RENEW	<ul style="list-style-type: none">3 year hosted remote management licence renewal, per AP

PACKAGING DIMENSIONS AND WEIGHT	
Package Size	<ul style="list-style-type: none">19.40(L) x 19.4(W) x 6.9(H) cm7.64(L) x 7.64(W) x 2.71(H) in
Package Weight	<ul style="list-style-type: none">544g (19.2 oz)

³ Max power varies by country setting, band, and MCS rate.
⁴ For complete list of WFA certifications, please see the Wi-Fi Alliance website.
⁵ For current certification status, please see the price list.