

# RAY R6A-E

Cloud-managed 2x2:2 Wi-Fi 6  
(802.11ax) access point

Built for Hospitality Use Case



Hotels

Hospital

Conference Centers

Malls

Residential properties

Co-working spaces



## HIGHLIGHTS

- Provides Multiple LAN Ports for Phone
- Wi-Fi 6 driven High-Performance
- LAN Ports support Multicast for IPTV for hospitality industry
- Intelligent Radio Resource Management
- Helps in lowering the TCO.
- 4X Lan Ports and 1X PoE Port
- Zero Maintenance



| SPECIFICATIONS           | R6A-E  |
|--------------------------|--|
| AP Type                  | Indoor Wall Plate Access Point   |
| MIMO                     | 2x2 SU-MIMO<br>2x2 MU-MIMO   |
| Max Aggregate frame rate | Max aggregate frame rate: 1.8 Gbps<br>› 2.4GHz: 591 Mbps<br>› 5GHz: 1238 Mbps        |
| WAN/LAN Ports            | 1 x 10/100/1000 BASE-T Ethernet (RJ45) PoE<br>4 x 10/100/1000 BASE-T Ethernet (RJ45) |
| Wi-fi 6                  | Wall Plate Form factor<br>Hospitality Use Cases                                      |

Note: Antenna is inbuilt in R6A-E.

# RAY ONE



Services



Products



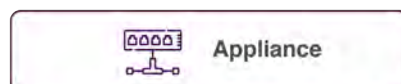
Centralized  
Management



Security driven  
Networking



Ray OS



## Ray One is a Next Generation Solution for the challenges of today.

Ray One powers Unified Networking and Security across Networks, endpoints, and clouds in a purpose-built cloud-delivered infrastructure that scales.

It employs concepts of convergence to consolidate multiple point products including Cloud SWG, NG CASB, FWaaS, SD-WAN and ADEM, into a single integrated service provide comprehensive cybersecurity protection for all users, devices, and applications and across all network edges. It reduces network and security complexity while increasing organizational agility and ensuring compliance, emphasizes interoperability as well as analytics, intelligence, centralized management, and automation, and integrates with a broad ecosystem of technologies and vendors.

What sets One Apart and distinguished is that it has a network wide visibility with a single pane of glass dashboard and control. Security comes in seamless with automatic firmware updates as well as automatic reporting. One has a unique feature of Self-provisioning for rapid deployment. One being cloud based consists of Cloud based RF Planning. Built-In spectrum analysis as well as Dual- Concurrent radios with band steering come in as features that set apart RF Planning with ONE.

As you will see further all features described in detail for Ray One, we would still like to highlight a couple of features that makes it Secured. One's Enterprise

security consists of 802.1X & Native Directory Integration. It comes with a Built-IN Anti-virus Scan (NAC) as well as Umbrella DNS security with a real time WIPS and forensics.

Ray One powered Edge Gateways, Switches and Wireless (Wi-Fi) devices are available to deploy on any network edge.





## FEATURES

Adaption for changing business dynamics to address modern requirements funnel downs to Network Architecture. Today Ray is being managed and delivered through cloud which enhances features like scalability, speed and flexibility. Enterprises with

Ray are able to leverage powerful automated, zero touch, delivering on demand and a proactive business approach. One Features help the enterprise to make intelligent decisions that adhere business goals and objectives.

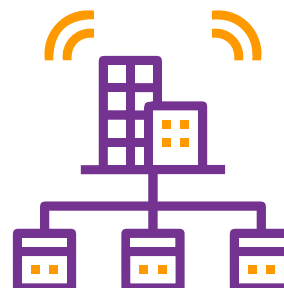


### Secure SD-WAN

Ray One powers extremely Secure & Advanced SD-WAN with top-tier features like Application Identification & Control, Application-aware traffic control, and Performance Optimization Helping you enable remote working through a secure Access Client & ZTNA. Automatically optimize routing and rerouting of traffic based on WAN Link performance (latency, jitter, loss) in real time with zero impact.

### Advance Networking

Ray One powers the most advanced and Secure enterprise-grade networking technology available for NAT, routing, and bridging across all the Edges even empowering Hybrid workforce. It includes Advance routing, Dual Stack Support, static, OSPF, BGP, and RIP with full 802.1Q VLAN support, Multicast, QOS Enablement and Traffic Classification and control amongst others.



### Security

Ray One keeps the Enterprise secure even from Ransomware, Malware and even Zero Day threats through high-performance streaming deep packet inspection, next-gen IPS, web protection, DNS Filters, and app control. The powerful Enterprise policies help create Trust Zones in the Network. Ray One enables fast, coordinated detection and enforcement across the entire attack surface to counter the latest known and unknown threats in real time. The threat research is unified data sets feeding from networks, endpoints, and clouds, rich independent research, and comprehensive industry collaboration.

## FEATURES

### Cloud Architecture

Ray Always One Cloud is Microservices bring unparalleled agility, scale, resiliency. Ray makes it easy to add or remove new features by leveraging a microservices cloud architecture. New enhancements and bug fixes are delivered almost weekly without network disruption. Services scale up or down elastically when they're needed, eliminating the cost and complexity of monolithic hardware.



### HSIA (Captive Portal)

Ray One powers 9 kinds of Captive Portal and Guest onboarding flows with advance features like WYSIWYG, Advertisement Server, Survey engine, Payment Gateway along, Multi Language support etc. The Wi-Fi Monetization makes Ray revenue centre for the enterprise. Guest Analytics helps to make data driven business decisions that help growth and revenue.

### WAN Suite

Ray One powered Link Bonding taps into the bandwidth of multiple WAN sources to provide a single bonded data-pipe that enables higher speed and resiliency whilst being economical, fast, and easily configurable to suit any networking environment.



## Dimensions & Interfaces

| AP Name  |   |
|--|---|
| R6A-E  |   |
| Wi-Fi  |   |
| Wi-Fi Standards                                    | 802.11 ax/ac/b/g/n  |
| AP Type  | Wall Plate, dual radio, 5GHz and 2.4GHz<br>802.11ax 2x2 MIMO  |
| MIMO   | <ul style="list-style-type: none"> <li>› 2x2 SU-MIMO</li> <li>› 2x2 MU-MIMO</li> </ul>  |
| 802.11ax, 802.11ac Wave 2 and 802.11n Capabilities | <ul style="list-style-type: none"> <li>› DL-OFDMA, UL-OFDMA, TWT support, BSS Coloring</li> <li>› 2 x 2 multiple input, multiple output (MIMO) with two spatial streams</li> <li>› SU-MIMO, UL MU-MIMO** and DL MU-MIMO support</li> <li>› Maximal ratio combining (MRC) &amp; beamforming</li> <li>› 20 and 40 MHz channels (802.11n); 20, 40, and 80 MHz channels (802.11ac Wave 2); 20, 40 and 80 MHz channels (802.11ax)</li> <li>› Up to 1024-QAM on both 2.4 GHz &amp; 5 GHz bands</li> <li>› Packet aggregation: A-MPDU, A-MSDU</li> </ul> |
| Radio 2.4GHz                                       | Two spatial stream Single User (SU) MIMO for up to 591 Mbps wireless data rate with individual 2SS HE40 (HE20) 802.11ax client devices or with two 1SS HE40 (HE20) 802.11ax MU-MIMO capable client devices simultaneously   |
| Radio 5GHz   | Two spatial stream Single User (SU) MIMO for up to 1.2 Gbps wireless data rate with individual 2SS HE80 802.11ax client devices, or with two 1SS HE80 802.11ax MU-MIMO capable client devices simultaneously  |
| Max aggregate frame rate                           | <ul style="list-style-type: none"> <li>› Max aggregate frame rate: 1.8 Gbps</li> <li>› 2.4GHz: 591 Mbps</li> <li>› 5GHz: 1238 Mbps</li> </ul>   |
| Supported Data Rates (Mbps)                        | <ul style="list-style-type: none"> <li>› 802.11b: 1, 2, 5.5, 11</li> <li>› 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54</li> <li>› 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM</li> <li>› 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM</li> <li>› 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40)</li> </ul>   |
| Supported frequency bands                          | <ul style="list-style-type: none"> <li>› Software enabled country-specific restrictions apply</li> <li>› 2.412-2.484 GHz</li> <li>› 5.150-5.250 GHz (UNII-1)</li> <li>› 5.250-5.350 GHz (UNII-2)</li> <li>› 5.470-5.600, 5.660-5.725 GHz (UNII-2e)</li> <li>› 5.725 -5.825 GHz (UNII-3)</li> </ul>  |

|                                  |  |
|----------------------------------|--|
| Supported Channels               | <ul style="list-style-type: none"> <li>› Available channels dependent on configured regulatory domain</li> <li>› 2.4GHz: 1-13</li> <li>› 5GHz: 36-64, 100-144, 149-165</li> <li>› Dynamic frequency selection (DFS) optimizes the use of available RF spectrum</li> </ul>  |
| Supported Radio Technologies     | <ul style="list-style-type: none"> <li>› 802.11b: Direct-sequence spread-spectrum (DSSS)</li> <li>› 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)</li> <li>› 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 16 resource units (RU)</li> </ul>  |
| Supported Modulation Types       | <ul style="list-style-type: none"> <li>› 802.11b: BPSK, QPSK, CCK</li> <li>› 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM</li> <li>› 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</li> <li>› 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM</li> </ul>  |
| Radio Chains and Spatial Streams | <ul style="list-style-type: none"> <li>› 2x2:2 streams SU/MU MIMO 5GHz</li> <li>› 2x2:2 streams SU/MU MIMO 2.4GHz</li> </ul>   |
| Channelization/PHY Types         | <ul style="list-style-type: none"> <li>› 802.11n high-throughput (HT) support: HT 20/40</li> <li>› 802.11ac very high throughput (VHT) support: VHT 20/40/80</li> <li>› 802.11ax high efficiency (HE) support: HE20/40/80</li> </ul>   |
| Wireless Authentication          | <ul style="list-style-type: none"> <li>› WEP, WPA, WPA2-PSK, WPA3 - Personal, WPA3 - Enterprise, WPA3 - Enhanced Open (OWE)</li> <li>› Dynamic PSK</li> <li>› EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM</li> <li>› IEEE 802.1X based Authentications</li> <li>› Captive Portal Based Authentications</li> </ul>   |
| Advance Features                 | <ul style="list-style-type: none"> <li>› Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks</li> <li>› Maximum ratio combining (MRC) for improved receiver performance</li> <li>› Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit antennas</li> <li>› Short guard interval for 20-MHz, 40-MHz, and 80-MHz</li> <li>› Space-time block coding (STBC) for increased range and improved reception</li> <li>› Low-density parity check (LDPC) for high-efficiency error correction and increased throughput</li> <li>› Transmit beam-forming (TxBF) for increased signal reliability and range</li> </ul> |

|                  |  |
|------------------|--|
| Beamforming      | Transmit Beamforming and Maximal Ratio Combining   |
| Band Steering    | Band steering for 5 GHz clients to connect over 5GHz Radio to provide better load balancing among 2.4GHz and 5GHz Radios.  |
| Beaconing        | <ul style="list-style-type: none"> <li>› Transmit Only</li> <li>› Transmit/Receive (Attached Devices)</li> <li>› Transmit/Receive (Unattached Devices)</li> </ul>                                    |
| Roaming/Mobility | <ul style="list-style-type: none"> <li>› Support for IEEE 802.11r or Fast BSS Transition (FT)</li> <li>› Centralized Layer 3 roaming</li> <li>› Seamless Roaming for Captive Portal users</li> </ul> |

#### RADIO RESOURCE MANAGEMENT

|                              |   |
|------------------------------|---|
| RF Management                | Dynamic RF management to detect and mitigate interference from Wi-Fi        |
| Wi-Fi Channel Management     | Automatic Channel Selection by Intelligent Radio Resource Management (iRRM) |
| Wi-Fi Radio Power Management | Optimum Power management by Intelligent Radio Resource Management (iRRM)    |
| Wi-Fi QOS                    | Self-healing (on detection of RF interference or loss of RF coverage).      |

#### ANTENNA

|                           |  |
|---------------------------|--|
| Antenna (Included in Box) | <ul style="list-style-type: none"> <li>› 2.4GHz omni-directional antennas with 2 dBi peak gain</li> <li>› 5GHz omni-directional antennas with 3 dBi peak gain</li> </ul> |
|---------------------------|--|

#### WIRELESS SECURITY

|                   |  |
|-------------------|--|
| Wireless Security | <ul style="list-style-type: none"> <li>› Real-time WIDS/WIPS with instant alerting</li> <li>› Classify Types of Rogue AP <ul style="list-style-type: none"> <li>› WLAN-Spoofing</li> <li>› Same-Network</li> <li>› MAC-spoofing</li> </ul> </li> </ul> |
|-------------------|--|

#### MESH

|                |   |
|----------------|---|
| SON based Mesh | <ul style="list-style-type: none"> <li>› Self-configuring</li> <li>› Self-defending</li> <li>› Self-healing</li> <li>› Self-managing</li> </ul> |
|----------------|---|

#### WI-FI OFFLOAD

- › Passpoint Wi-Fi (Release 2) (Hotspot 2.0) for Seamless cellular-to-Wi-Fi
- › Access Network Discovery and Selection Function (ANDSF) Integration

#### RADIO MANAGEMENT

|                           |  |
|---------------------------|--|
| Antenna Optimization      | Polarization Diversity with Maximal Ratio Combining (PDMRC)                        |
| Client Density Management | Client Load Balancing distribute clients to the least loaded 802.11 channel and AP |
| Airtime Fairness          | Enhance general client performance   |

#### POWER

|  |  |
|--|--|
| Peak Transmit Power (Tx port/chain + Combining gain) | <ul style="list-style-type: none"> <li>› Limited by local regulatory requirements</li> <li>› 2.4 GHz band: +20 dBm (18dBm per chain)</li> <li>› 5 GHz band: +19 dBm (18 dBm per chain)</li> <li>› Note: conducted transmit power levels exclude antenna gain.</li> </ul> |
| Transmit power                                       | Configurable in increments of 0.5 dBm  |
| Maximum EIRP (2.4 GHz band)                          | <ul style="list-style-type: none"> <li>› Limited by local regulatory requirements</li> <li>› 2.4 GHz band: <ul style="list-style-type: none"> <li>› 565: 29.2 dBm EIRP</li> <li>› 567: 33 dBm EIRP</li> </ul> </li> </ul>  |
| Maximum EIRP (5 GHz band:)                           | <ul style="list-style-type: none"> <li>› Limited by local regulatory requirements</li> <li>› 5 GHz band: <ul style="list-style-type: none"> <li>› 565: 31.4 dBm EIRP</li> <li>› 567: 32.7 dBm EIRP</li> </ul> </li> </ul>  |

#### NMS INTEGRATION

SNMP support

#### PERFORMANCE

|   |  |
|---|--|
| Maximum number of associated client devices | › Up to 128 clients per AP   |
| Maximum number of BSSIDs                    | <ul style="list-style-type: none"> <li>› 16 BSSIDs per radio</li> <li>› Up to 31 per AP</li> </ul> |

#### NETWORKING

|                         |  |
|-------------------------|--|
| IP                      | IPv4, IPv6, dual stack   |
| VLAN                    | <ul style="list-style-type: none"> <li>› 802.1Q (1 per BSSID or dynamic per user based on RADIUS)</li> <li>› VLAN Pooling</li> <li>› Port-based</li> </ul>   |
| 802.1x                  | Authenticator & Supplicant   |
| Tunnel                  | <ul style="list-style-type: none"> <li>› L2TP</li> <li>› GRE/EoGRE</li> <li>› Openvpn</li> <li>› L2TP/IPSEC</li> </ul>   |
| Policy Management Tools | <ul style="list-style-type: none"> <li>› Application Recognition and Control</li> <li>› Access Control Lists</li> <li>› Device Fingerprinting</li> <li>› Rate Limiting</li> <li>› Integrated Layer 7 firewall with mobile device policy management</li> <li>› Flexible guest access with device isolation</li> </ul> |
| Quality of Service      | <ul style="list-style-type: none"> <li>› WMM Access Categories with DSCP and 802.1p support</li> <li>› QoS-based scheduling</li> <li>› Directed Multicast</li> <li>› L2/L3/L4 ACLs</li> </ul>  |
| Modes                   | <ul style="list-style-type: none"> <li>› Gateway Mode</li> <li>› Bridge &amp; Firewall</li> <li>› Bridge No Firewall</li> </ul>  |



|                         |  |
|-------------------------|--|
| External Authentication | <ul style="list-style-type: none"> <li>› Authentication via Radius</li> <li>› Authentication via LDAP</li> <li>› Authentication via Single Sign-On (SSO)</li> <li>› Authentication via Active Directory (AD)</li> </ul>  |
| Radius                  | <ul style="list-style-type: none"> <li>› Radius Option 82 Support</li> </ul>   |
| Tunnel                  | <ul style="list-style-type: none"> <li>› L2TP</li> <li>› GRE/EoGRE</li> <li>› Openvpn</li> <li>› L2TP/IPSEC</li> <li>› PPTP</li> <li>› Wireguard/SSL</li> </ul>  |
| L3 Features             | Routing Protocols: <ul style="list-style-type: none"> <li>› Static unicast routes</li> <li>› Equal cost multipath routing (ECMP)</li> <li>RIP v1/v2</li> <li>› OSPF</li> <li>› BGP4+</li> <li>VRRP</li> <li>› Generic routing encapsulation (GRE)</li> <li>› Standard 802.1d Spanning Tree Protocol</li> <li>› Network Address Translation (NAT)</li> <li>› Dynamic Host Configuration Protocol (DHCP)</li> <li>› server, relay, and client</li> <li>› Access control lists (ACLs)</li> <li>› IPv4 and IPv6 Multicast</li> </ul> |

## SD-WAN

|                   |   |
|-------------------|---|
| Topology Support  | Hub & Spoke Topology<br>Mesh Topology                       |
| Multi-WAN Support | Link Failover<br>Link Balancing<br>Link Bonding/Aggregation |
| Application Aware | Application based Routing<br>Application Priority           |

## NETWORK SECURITY

- › Integrated Layer 7 firewall with mobile device policy management
- › Flexible guest access with device isolation
- › VLAN tagging (802.1q) and tunneling with IPsec VPN
- › Secure Boot, runtime defences/image signing/integrity verification, and hardware authenticity.
- › PCI compliance reporting
- › IP filtering policies or ACL
- › Device Profiling & VLAN mapping
- › L2 Isolation, ARP Blocking
- › DDoS Detection
- › Anti-Malware, Anti-Phishing and Anti-SPAM Engines.

## ENTERPRISE POLICY

|  |  |
|--|--|
| Enterprise Policies (Applicable Per User/Group/SSID) | <ul style="list-style-type: none"> <li>› Time Policy to Control the Access Time</li> <li>› Speed Policy to Control Upload/Download Bandwidth</li> <li>› Device Policy to control Device Type</li> <li>› Quota Policy to control Time or Volume Usage</li> <li>› Concurrency Policy to control simultaneous user login</li> <li>› Application Policy to control L7 Policy</li> <li>› Web Categorization Policy to control browsing by Category</li> <li>› DNS Filter Policy to filter DNS requests</li> </ul> |
|--|--|

## QUALITY OF SERVICE (QOS)

- › Advanced Power Save (U-APSD)
- › WMM Access Categories with DSCP and 802.1p support
- › Layer 7 application traffic identification, prioritization & shaping Per SSID/Group/User
- › QoS configuration for applications based on categories.
- › 802.11e WMM Support

## GUEST CAPTIVE PORTAL

|   |  |
|---|--|
| Guest Captive Portal Authentication Modes | <ul style="list-style-type: none"> <li>› Click To Login</li> <li>› Voucher</li> <li>› Username &amp; Password</li> <li>› SMS OTP</li> <li>› Email OTP</li> <li>› Custom Survey</li> <li>› Social Media</li> <li>› Advertisement</li> <li>› Payment Gateway</li> </ul>  |
| Survey Engine                             | <ul style="list-style-type: none"> <li>› Create Custom Survey with the below Questions</li> <li>› Short Answer</li> <li>› Long Answer</li> <li>› Email ID</li> <li>› Phone Number</li> <li>› Star Rating</li> <li>› Smiley Rating</li> <li>› Dropdown</li> <li>› Radio Button</li> <li>› Multi Select</li> </ul> |
| Advertisement Engine                      | <ul style="list-style-type: none"> <li>› Display Picture or Video Advertisements Per Venue</li> <li>› Display Statistics, Clicks, Views, Revenue generated per Venue/Advertisement</li> </ul>  |
| PMS Integration                           | Oracle Opera PMS and Fidelio Suite8 PMS (IFC Part Number 5009-313)   |

## FIRMWARE

- › Flash Security Updates (No Reboot Required)
- › Cloud Managed Firmware Updates

## PHYSICAL INTERFACES

|                  |   |
|------------------|---|
| Ethernet (WAN)   | <ul style="list-style-type: none"> <li>› 1x 10/100/1000 BASE-T Ethernet (RJ45)</li> <li>› Power over Ethernet (802.3af/at) with Category 5/5e/6 cable PD. LLDP</li> <li>› Auto-sensing link speed and MDI/MDX</li> <li>› 802.3az Energy Efficient Ethernet (EEE)</li> </ul> |
| Ethernet (WAN)   | › 4 x 10/100/1000 BASE-T Ethernet (RJ45)LLDP  |
| PassThrough Port | 1 x PassThrough Port (RJ45)   |
| Console Port     | 1 x Console Port  |
| USB 2.0          | 1 x USB 2.0   |
| Reset Button     | Reset to the factory default settings   |
| Indicators       | <ul style="list-style-type: none"> <li>› 1 x System</li> <li>› 1 x 2.4G Wi-Fi</li> <li>› 1 x 5.8G Wi-Fi</li> <li>› 1 x WAN</li> <li>› 4 x LAN</li> </ul>  |
| DC Power         | 1x DC power connector   |

## DIMENSIONS

|               |   |
|---------------|---|
| Physical Size | <ul style="list-style-type: none"> <li>› L=160</li> <li>› B=86</li> <li>› H=29</li> </ul> |
| Weight        | 0.3 Kg  |

## MOUNTING

- › Mounts to walls and horizontal, vertical, and angled poles
- › All standard mounting hardware included

## ENVIRONMENTAL

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating temperature | 0°C to +40°C / 32°F to +104°F        |
| Humidity              | 5%~95% non-condensing Internal       |
| Storage Temperature   | -40° C to +70° C (-40° F to +158° F) |
| Storage Humidity      | 5%~95% non-condensing Internal       |

## POWER

|  |                                       |
|--|---------------------------------------|
| Maximum (worst-case) power consumption:                    | 24W                                   |
| Maximum (worst case) power consumption in idle mode:       | 6.1W                                  |
| Maximum (worst case) power consumption in deep-sleep mode: | 3.3W<br>Power sources sold separately |
| 802.3at PoE+   | 18.71W                                |
| Power over Ethernet (PoE+):                                | 802.3at-compliant                     |

## RELIABILITY

Mean Time Between Failure (MTBF): 1,315,612 hrs at +25°C operating temperature

## CONTROLLER

|               |   |
|---------------|---|
| Public Cloud  | Ray ONE hosted on Public Cloud              |
| Private Cloud | Ray ONE hosted on Private Cloud/Data-center |

## WARRANTY

As per the purchased SKU

## BOX CONTENTS

- › Standard Mounting Kit
- › Ethernet Cable
- › Quick Start Guide



## SPECIFICATIONS

### 2.4GHZ RECEIVE SENSITIVITY (dBm)

| HT20 |        | HT40   |        | VHT20  |        | VHT40  |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| MCS0 | MCS7   | MCS0   | MCS7   | MCS0   | MCS11  | MCS0   | MCS11  |
| -92  | -72dBm | -90dBm | -71dBm | -93dBm | -63dBm | -91dBm | -60dBm |

### 5GHZ RECEIVE SENSITIVITY (dBm)

| HT20   |        | HT40   |        |        |        |
|--------|--------|--------|--------|--------|--------|
| MCS0   | MCS7   | MCS0   | MCS7   |        |        |
| -93dBm | -75dBm | -91dBm | -72dBm |        |        |
| VHT20  |        | VHT40  |        | VHT80  |        |
| MCS0   | MCS11  | MCS0   | MCS11  | MCS0   | MCS9   |
| -93dBm | -74dBm | -91dBm | -72dBm | -88dBm | -62dBm |
| HE20   |        | HE40   |        | HE80   |        |
| MCS0   | MCS11  | MCS0   | MCS11  | MCS0   | MCS11  |
| -93dBm | -63dBm | -90dBm | -60dBm | -87dBm | -56dBm |

### 2.4 GHZ RF Power

|       |      |         |
|-------|------|---------|
| MCS0  | HT20 | 23±1dBm |
| MCS7  | HT20 | 22±1dBm |
| MCS0  | HT40 | 22±1dBm |
| MCS7  | HT40 | 21±1dBm |
| MCS0  | HE20 | 21±1dBm |
| MCS11 | HE20 | 20±1dBm |
| MCS0  | HE40 | 20±1dBm |
| MCS11 | HE40 | 19±1dBm |

### 5 GHZ RF Power

|       |       |         |
|-------|-------|---------|
| MCS0  | HT20  | 23±1dBm |
| MCS7  | HT20  | 22±1dBm |
| MCS0  | HT40  | 22±1dBm |
| MCS7  | HT40  | 21±1dBm |
| MCS0  | VHT20 | 22±1dBm |
| MCS9  | VHT20 | 21±1dBm |
| MCS0  | VHT40 | 22±1dBm |
| MCS9  | VHT40 | 20±1dBm |
| MCS0  | VHT80 | 20±1dBm |
| MCS9  | VHT80 | 19±1dBm |
| MCS0  | HE20  | 21±1dBm |
| MCS11 | HE20  | 20±1dBm |
| MCS0  | HE40  | 20±1dBm |
| MCS11 | HE40  | 19±1dBm |
| MCS0  | HE80  | 19±1dBm |
| MCS11 | HE80  | 18±1dBm |

## SUBSCRIPTIONS

| ESSENTIAL                      | CONNECT                        | PROTECT                        | TOTAL                          |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Cloud Subscription             | Cloud Subscription             | Cloud Subscription             | Cloud Subscription             |
| Essential Support              | Essential Support              | Essential Support              | Essential Support              |
| L3 Networking                  | L3 Networking                  | L3 Networking                  | L3 Networking                  |
| RRM                            | RRM                            | RRM                            | RRM                            |
| WAN Suite                      | WAN Suite                      | WAN Suite                      | WAN Suite                      |
|                                | SD-WAN                         | SD-WAN                         | SD-WAN                         |
|                                | SASE                           | SASE                           | SASE                           |
|                                |                                | Network & Web Protection       | Network & Web Protection       |
|                                |                                | Captive Portal                 | Captive Portal                 |
|                                |                                |                                | EYE                            |
|                                |                                |                                | INSIGHTS                       |
|                                |                                |                                | VIGIL                          |
| 12 Months (Renewal required)   | 12 Months (Renewal required)   | 12 Months (Renewal required)   | 12 Months (Renewal required)   |
| 36 Months (Renewal required)   | 36 Months (Renewal required)   | 36 Months (Renewal required)   | 36 Months (Renewal required)   |
| 60 Months (Essential Lifetime) | 60 Months (Essential Lifetime) | 60 Months (Essential Lifetime) | 60 Months (Essential Lifetime) |

## HARDWARE WARRANTY

| Essential Hardware Warranty | Premium Hardware Warranty             |
|-----------------------------|---------------------------------------|
| Available for 1,3 & 5 Years | Available for 1,3 & 5 Years           |
| Return & Replace Warranty   | Advance Replacement with NBD Shipping |

## SOFTWARE SUPPORT

| Essential Software Support  | Premium Software Support    |
|-----------------------------|-----------------------------|
| Available for 1,3 & 5 Years | Available for 1,3 & 5 Years |
| Support time 8*5            | Support time 24*7           |
| Email Support               | Email Support               |
| Web Support                 | Web Support                 |
| Chat Support                | Chat Support                |

For More details on warranty visit: [www.ray.life](http://www.ray.life)

## What is included in the box

1. R6A-E
2. Theft Protection M3X4 screw
3. M4X25 screwX2
4. Mounting Plate



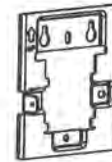
1. R6A-E



2. Theft Protection M3X4 screw



3. M4X25 screwX2



4. Mounting Plate

## ORDERING MECHANISM

### R6A-E Hardware

| SKU        | Product Name                                   | Description  |
|------------|--|--|
| RWHCC0N147 | R6A-E Wi-Fi 6 Wall Plate Wireless Access Point | <ul style="list-style-type: none"> <li>› Wi-Fi 6 (802.11 AX) Wall Plate Wireless Access Point</li> <li>› 1800 Mbps</li> <li>› 2x2 MIMO</li> <li>› 1 x 1G (WAN, PoE)</li> <li>› 4 x 1G (LAN)</li> </ul> |

### R6A-E Hardware Support

|            |                                    |  |
|------------|------------------------------------|--|
| RWWSC0N256 | R6A-E 12 Months Essential Warranty | R6A-E 12 Months Essential Warranty<br>Return & Replace Hardware Warranty |
| RWWSC6N256 | R6A-E 36 Months Essential Warranty | R6A-E 36 Months Essential Warranty<br>Return & Replace Hardware Warranty |
| RWWSC8N256 | R6A-E 60 Months Essential Warranty | R6A-E 60 Months Essential Warranty<br>Return & Replace Hardware Warranty |
| RWWSC0N257 | R6A-E 12 Months Premium Warranty   | R6A-E 12 Months Premium Warranty<br>Advance Replacement with NBD Ship    |
| RWWSC6N257 | R6A-E 36 Months Premium Warranty   | R6A-E 36 Months Premium Warranty<br>Advance Replacement with NBD Ship    |
| RWWSC8N257 | R6A-E 60 Months Premium Warranty   | R6A-E 60 Months Premium Warranty<br>Advance Replacement with NBD Ship    |



## R6A-E Subscription Plans

|            |   |  |
|------------|---|--|
| RWHSC4N183 | R6A-E Essential Subscription for 12 Months        | <ul style="list-style-type: none"> <li>› R6A-E Essential Subscription for 12,36 &amp; 60 Months</li> <li>› Includes</li> <li>› Cloud Subscription</li> <li>› Essential Support</li> <li>› L3 Networking</li> <li>› RRM</li> </ul>  |
| RWHSC6N183 | R6A-E Essential Subscription for 36 Months        |  |
| RWHSC8N183 | R6A-E Essential Subscription for 60 Months        |  |
| RWSSC4N237 | R6A-E Connect Subscription for 12 Months          | <ul style="list-style-type: none"> <li>› R6A-E Essential Subscription for 12,36 &amp; 60 Months</li> <li>› Includes</li> <li>› Cloud Subscription</li> <li>› Essential Support</li> <li>› L3 Networking</li> <li>› RRM</li> <li>› WAN Suite</li> <li>› SD-WAN</li> <li>› SASE</li> </ul>   |
| RWSSC6N237 | R6A-E Connect Subscription for 36 Months          |  |
| RWHSC8N183 | R6A-E Connect Subscription for 36 Months          |  |
| RWASC4N184 | R6A-E Protect Subscription for 12 Months includes | <ul style="list-style-type: none"> <li>› R6A-E Essential Subscription for 12,36 &amp; 60 Months</li> <li>› Includes</li> <li>› Cloud Subscription</li> <li>› Essential Support</li> <li>› L3 Networking</li> <li>› RRM</li> <li>› WAN Suite</li> <li>› SD-WAN</li> <li>› SASE</li> <li>› Network &amp; Web Protection</li> <li>› Captive Portal</li> </ul>   |
| RWASC6N184 | R6A-E Protect Subscription for 12 Months Includes |  |
| RWASC8N184 | R6A-E Protect Subscription for 60 Months includes |  |
| RWHSC4N199 | R6A-E Total Subscription for 12 Months            | <ul style="list-style-type: none"> <li>› R6A-E Essential Subscription for 12,36 &amp; 60 Months</li> <li>› Includes</li> <li>› Cloud Subscription</li> <li>› Essential Support</li> <li>› L3 Networking</li> <li>› RRM</li> <li>› Network &amp; Web Protection</li> <li>› Captive Portal</li> <li>› WAN Suite</li> <li>› SD-WAN</li> <li>› SASE</li> <li>› EYE</li> <li>› Insights</li> <li>› Vigil</li> </ul> |
| RWHSC6N199 | R6A-E Total Subscription for 36 Months            |  |
| RWHSC8N199 | R6A-E Total Subscription for 60 Months            |  |

USE CASES



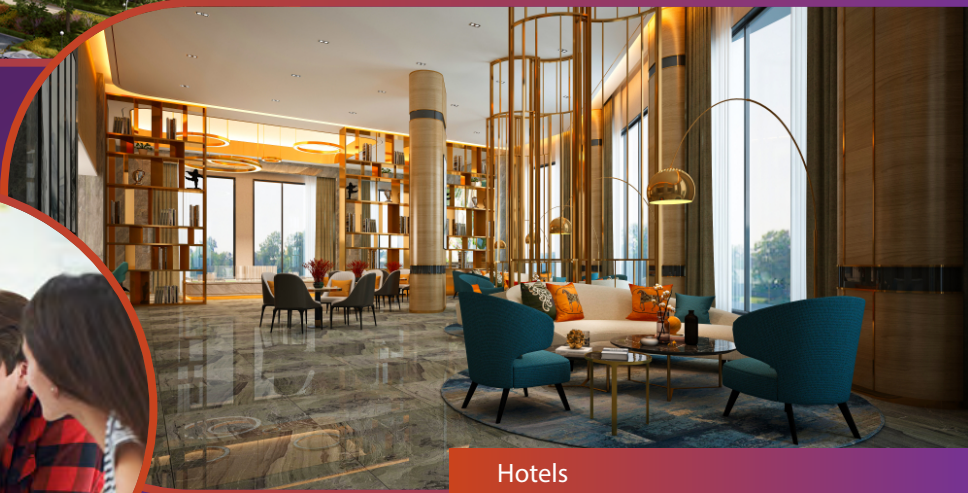
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Hospitals



Co-Working Spaces



Hotels



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Secure Networking

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