# RAY

Secure Networking
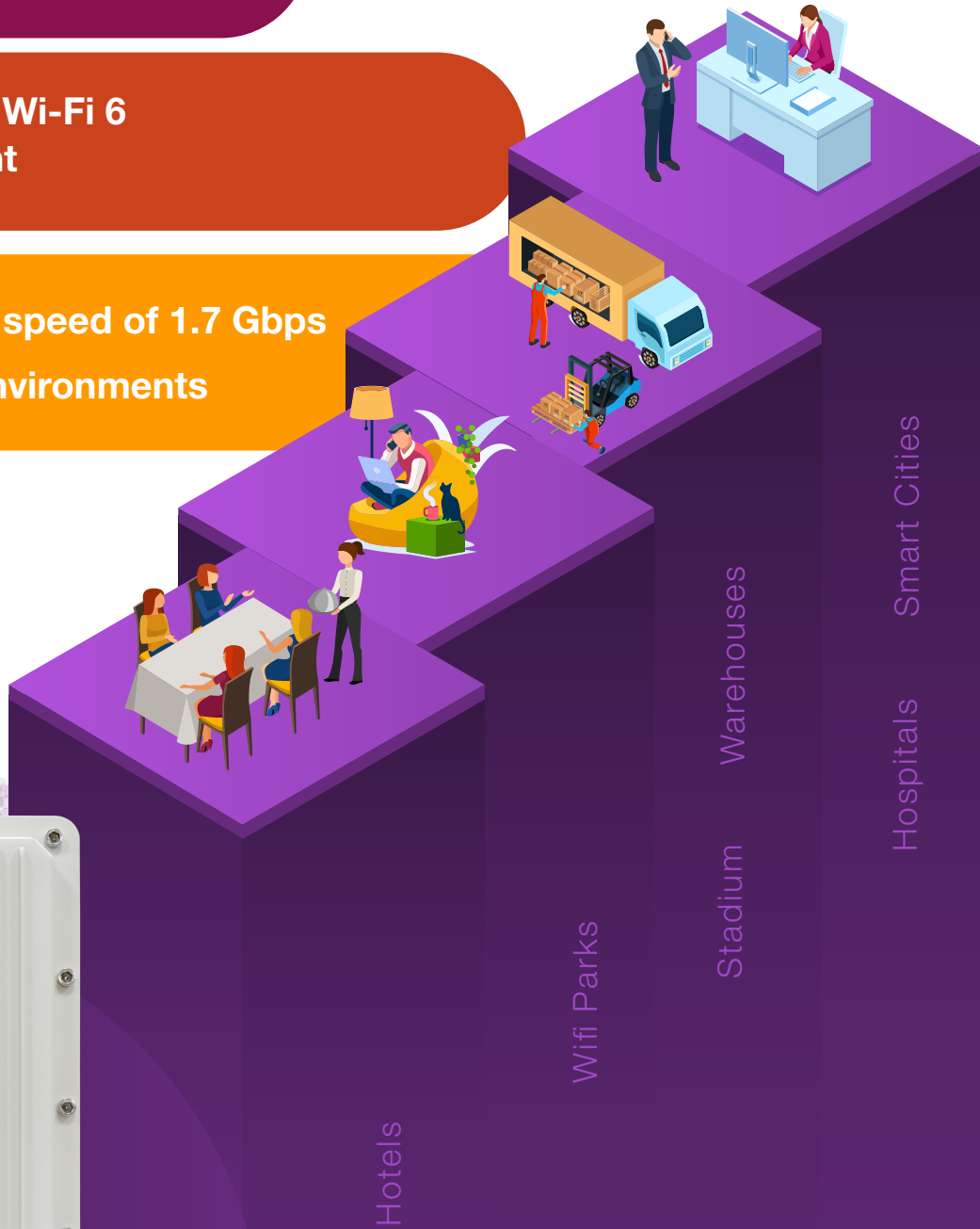
# RAY R6B-O

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

**Maximum aggregated speed of 1.7 Gbps**

**Built for demanding environments**

RAY

Powered by **Ray ONE**

Hotels

Wifi Parks

Stadium

Warehouses

Hospitals

Smart Cities

## HIGHLIGHTS

- **Rugged, IP67 rated sustains in extreme weather conditions**
- **Wi-Fi 6 driven High-Performance**
- **Bundled High-Power Omnidirectional Antennae & Mounting Kit.**
- **Four radios: 2.4 GHz, 5 GHz, dual-band WIDS/WIPS**
- **Pocket friendly, helps in lowering the TCO.**
- **2-stream UL/DL MU-MIMO**
- **802.11ax up to 1.7 Gbps dual aggregate frame rate**
- **One Gigabit Ethernet port, 802.3af PoE compatible**
- **Dynamic Segmentation and policy-enforcement firewalls**

| SPECIFICATIONS | R6A-O | R6B-O |
|---|---|---|
| **AP Type** | Rugged Outdoor High-Performance Access Point | Rugged Outdoor Ultra High-Performance Access Point |
| **MIMO** | 2x2 SU-MIMO<br>2x2 MU-MIMO | 4x4 SU-MIMO<br>4x4 MU-MIMO |
| **Max Aggregate frame rate** | Max aggregate frame rate: 1.8 Gbps<br>› 2.4GHz: 591 Mbps<br>› 5GHz: 1238 Mbps | Max aggregate frame rate: 3657 Mbps<br>› 2.4GHz: 1182 Mbps<br>› 5GHz: 2475M Mbps |
| **LAN Ports** | 1 x 10/100/1000 BASE-T Ethernet (RJ45) PoE | 1 x 10/100/1000 BASE-T Ethernet (RJ45) PoE |
| **Wi-fi 6** | General Purpose<br>Fits most Indoor Use Cases | High-Density Outdoor Use Case<br>Ultra-High Performance |

Note: Antenna will be delivered with the Product.

# RAY ONE

| | | | Services |
|---|---|---|---|
| RAY Essential | RAY Premium | | |

| | | | | Products |
|---|---|---|---|---|
| Edge Gateway | Switch | Wi-Fi | Sase | |

| | | | Centralized Management |
|---|---|---|---|
| Orchestration | Integration | Automation | |

| | | | | Security driven Networking |
|---|---|---|---|---|
| SD-Wan | Firewall | HSIA | Multiwan | |

| | | | Ray OS |
|---|---|---|---|
| Linux Networking | Multiple Interfaces | Hardware | |

| | |
|---|---|
| Appliance | Virtual |

RAY

## **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.

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 complexityc 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 | |
|---|---|
| R6B-O | |
| **WI-FI** | |
| **Wi-Fi Standards** | 802.11 ax/ac/b/g/n |
| **AP Type** | Outdoor Hardened, Wi-Fi 6 dual radio, 5 GHz 2x2 MIMO and 2.4 GHz 2x2 MIMO |
| **MIMO** | › 2x2 SU-MIMO<br>› 2x2 MU-MIMO |
| **802.11ax, 802.11ac Wave 2 and 802.11n Capabilities** | › DL-OFDMA, UL-OFDMA, TWT support, BSS Coloring<br>› 2 x 2 multiple input, multiple output (MIMO) with two spatial streams<br>› SU-MIMO, UL MU-MIMO** and DL MU-MIMO support<br>› Maximal ratio combining (MRC) & beamforming<br>› 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)<br>› Up to 1024-QAM on both 2.4 GHz & 5 GHz bands<br>› Packet aggregation: A-MPDU, A-MSDU |
| **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** | › Max aggregate frame rate: 1.8 Gbps<br>› 2.4GHz: 591 Mbps<br>› 5GHz: 1238 Mbps |
| **Supported Data Rates (Mbps)** | › 802.11b: 1, 2, 5.5, 11<br>› 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54<br>› 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM<br>› 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM<br>› 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40) |
| **Supported frequency bands** | › Software enabled country-specific restrictions apply<br>› 2.412-2.484 GHz<br>› 5.150-5.250 GHz (UNII-1)<br>› 5.250-5.350 GHZ (UNII-2)<br>› 5.470-5.600, 5.660-5.725 GHz (UNII-2e)<br>› 5.725 -5.825 GHz (UNII-3) |

| Supported Channels | › Available channels dependent on configured regulatory domain<br>› 2.4GHz: 1-13<br>› 5GHz: 36-64, 100-144, 149-165<br>› Dynamic frequency selection (DFS) optimizes the use of available RF spectrum |
|---|---|
| **Supported Radio Technologies** | › 802.11b: Direct-sequence spread-spectrum (DSSS)<br>› 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)<br>› 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 16 resource units (RU) |
| **Supported Modulation Types** | › 802.11b: BPSK, QPSK, CCK<br>› 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM<br>› 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM<br>› 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM |
| **Radio Chains and Spatial Streams** | › 2x2:2 streams SU/MU MIMO 5GHz<br>› 2x2:2 streams SU/MU MIMO 2.4GHz |
| **Channelization/ PHY Types** | › 802.11n high-throughput (HT) support: HT 20/40<br>› 802.11ac very high throughput (VHT) support: VHT 20/40/80<br>› 802.11ax high efficiency (HE) support: HE20/40/80 |
| **Wireless Authentication** | › WEP, WPA, WPA2-PSK, WPA3 - Personal, WPA3 - Enterprise, WPA3 - Enhanced Open (OWE)<br>› Dynamic PSK<br>› EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM<br>› IEEE 802.1X based Authentications<br>› Captive Portal Based Authentications |
| **Advance Features** | › Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks<br>› Maximum ratio combining (MRC) for improved receiver performance<br>› Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit antennas<br>› Short guard interval for 20-MHz, 40-MHz, and 80-MHz<br>› Space-time block coding (STBC) for increased range and improved reception<br>› Low-density parity check (LDPC) for high-efficiency error correction and increased throughput<br>Transmit beam-forming (TxBF) for increased signal reliability and range |

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| 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** | › Transmit Only<br>› Transmit/Receive (Attached Devices)<br>› Transmit/Receive (Unattached Devices) |
| **Roaming/Mobility** | › Support for IEEE 802.11r or Fast BSS Transition (FT)<br>› Centralized Layer 3 roaming<br>› Seamless Roaming for Captive Portal users |

### 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) | › 2.4GHz omni-directional External N Type antennas with 6 dBi peak gain<br>› 5GHz omni-directional External N Type antennas with 6 dBi peak gain |
|---|---|

### WIRELESS SECURITY

| Wireless Security | › Real-time WIDS/WIPS with instant alerting<br>› Classify Types of Rogue AP<br>  › WLAN-Spoofing<br>  › Same-Network<br>  › MAC-spoofing |
|---|---|

### MESH

| SON based Mesh | › Self-configuring<br>› Self-defending<br>› Self-healing<br>› Self-managing |
|---|---|

### 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) | › Limited by local regulatory requirements<br>› 2.4 GHz band: +23 dBm per chain, +26 dBm aggregate (2x2)<br>› 5 GHz band: +23 dBm per chain, +26 dBm aggregate (2x2)<br>› Note: conducted transmit power levels exclude antenna gain. |
|---|---|
| **Transmit power** | Configurable in increments of 0.5 dBm |
| **Maximum EIRP (2.4 GHz band)** | › Limited by local regulatory requirements<br>› 2.4 GHz band:<br>› 565: 29.2 dBm EIRP<br>› 567: 33 dBm EIRP |
| **Maximum EIRP (5 GHz band:)** | › Limited by local regulatory requirements<br>› 5 GHz band:<br>› 565: 31.4 dBm EIRP<br>› 567: 32.7 dBm EIRP |

### NMS INTEGRATION

SNMP support

### PERFORMANCE

| Maximum number of associated client devices | › Up to 256 associated client devices per radio<br>› Up to 512 clients per AP |
|---|---|
| **Maximum number of BSSIDs** | › 16 BSSIDs per radio<br>› › Up to 31 per AP |

### NETWORKING

| IP | IPv4, IPv6, dual stack |
|---|---|
| **VLAN** | › 802.1Q (1 per BSSID or dynamic per user based on RADIUS)<br>› › VLAN Pooling<br>› › Port-based |
| **802.1x** | Authenticator & Supplicant |
| **Tunnel** | › L2TP<br>› GRE/EoGRE<br>› Openvpn<br>› L2TP/IPSEC |
| **Policy Management Tools** | › Application Recognition and Control<br>› Access Control Lists<br>› Device Fingerprinting<br>› Rate Limiting<br>› Integrated Layer 7 firewall with mobile device policy management<br>› Flexible guest access with device isolation |
| **Quality of Service** | › WMM Access Categories with DSCP and 802.1p support<br>› QoS-based scheduling<br>› Directed Multicast<br>› L2/L3/L4 ACLs |
| **Modes** | › Gateway Mode<br>› Bridge & Firewall<br>› Bridge No Firewall |

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| External Authentication | › Authentication via Radius<br>› Authentication via LDAP<br>› Authentication via Single Sign-On (SSO)<br>› Authentication via Active Directory (AD) |
|---|---|
| **Radius** | › Radius Option 82 Support |
| **Tunnel** | › L2TP<br>› GRE/EoGRE<br>› Openvpn<br>› L2TP/IPSEC<br>› PPTP<br>› Wireguard/SSL |
| **L3 Features** | Routing Protocols:<br>› Static unicast routes<br>› Equal cost multipath routing (ECMP) RIP v1/v2<br>› OSPF<br>› BGP4+<br>VRRP<br>› Generic routing encapsulation (GRE)<br>› Standard 802.1d Spanning Tree Protocol<br>› Network Address Translation (NAT)<br>› Dynamic Host Configuration Protocol (DHCP)<br>› server, relay, and client<br>› Access control lists (ACLs)<br>› IPv4 and IPv6 Multicast |

## 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) | › Time Policy to Control the Access Time<br>› Speed Policy to Control Upload/Download Bandwidth<br>› Device Policy to control Device Type<br>› Quota Policy to control Time or Volume Usage<br>› Concurrency Policy to control simultaneous user login<br>› Application Policy to control L7 Policy<br>› Web Categorization Policy to control browsing by Category<br>› DNS Filter Policy to filter DNS requests |
|---|---|

## 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 | › Click To Login<br>› Voucher<br>› Username & Password<br>› SMS OTP<br>› Email OTP<br>› Custom Survey<br>› Social Media<br>› Advertisement<br>› Payment Gateway |
|---|---|
| **Survey Engine** | › Create Custom Survey with the below Questions<br>› Short Answer<br>› Long Answer<br>› Email ID<br>› Phone Number<br>› Star Rating<br>› Smiley Rating<br>› Dropdown<br>› Radio Button<br>› Multi Select |
| **Advertisement Engine** | › Display Picture or Video Advertisements Per Venue<br>› Display Statistics, Clicks, Views, Revenue generated per Venue/Advertisement |
| **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

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## PHYSICAL INTERFACES

| | |
|---|---|
| **Ethernet (WAN)** | › 1x 10/100/1000 BASE-T Ethernet (RJ45)<br>› Power over Ethernet (802.3af/at) with Category 5/5e/6 cable PD.<br>› LLDP<br>› Auto-sensing link speed and MDI/MDX<br>› 802.3az Energy Efficient Ethernet (EEE) |
| **Reset Button** | Reset to the factory default settings |

## DIMENSIONS

| | |
|---|---|
| **Physical Size** | › L=295<br>› B=231<br>› H=80 |
| **Weight** | 3.78 kg |

## MOUNTING

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

## ENVIRONMENTAL

| | |
|---|---|
| **Operating temperature** | -40° C to +55° C (-40° F to +140° F) with full solar loading |
| **Humidity** | 5%~95% non-condensing Internal<br>Rated for operation in all weather conditions |
| **Storage Temperature** | -40° C to +70° C (-40° F to +158° F) |
| **Storage Humidity** | 5%~95% non-condensing Internal |
| **Operating Altitude** | 3,000 m |
| **Water and Dust** | IP66/67 Environmental rating |
| **Wind Survival** | Up to 165 Mph |
| **Shock and Vibration** | ETSI 300-19-2-4 |

## 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 |

## SURGE PROTECTION

| | |
|---|---|
| **Common Mode Surge Protection** | 6KV |
| **Differential Mode Surge Protection** | 2KV |

## 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

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# 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 |

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# 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

# BOX CONTENT

## What is included in the box

1. R6B-O
2. Waterproof Kit
3. Bracket-1
4. U-Bolt Kit-2
5. Screw Set
6. Antenna



1. R6B-O



2. Waterproof Kit



3. Bracket-1



4. U-Bolt Kit-2



5. Screw Set



6. Antenna

# ORDERING MECHANISM

| R6B-O Hardware | | |
|---|---|---|
| **SKU** | **Product Name** | **Description** |
| **RWHCC0N085** | **R6B-O Wi-Fi 6 Outdoor Wireless Access Point** | › Wi-Fi 6 (802.11 AX) Outdoor Wireless Access Point<br>› 1800 Mbps<br>› 2x2 MIMO<br>› 1 x 1G (WAN, PoE)<br>› 4 x Omni Directional Antenna |

| R6B-O Hardware Support | | |
|---|---|---|
| **RWWSC4E259** | **R6B-O Essential Hardware Warranty (12 Months)** | R6B-O 12 Months Preimum Warranty Advance Replacement with NBD ShipAdvance |
| **RWWSC4N258** | **R6B-O Essential Hardware Warranty (36 Months)** | R6B-O 12 Months Essential Warranty Return & Replace Hardware Warranty |
| **RWWSC6N258** | **R6B-O Essential Hardware Warranty (60 Months)** | R6B-O 36 Months Essential Warranty Return & Replace Hardware Warranty |
| **RWWSC8N258** | **R6B-O Premium Hardware Warranty (12 Months)** | R6B-O 60 Months Essential Warranty Return & Replace Hardware Warranty |
| **RWWSC6E259** | **R6B-O Premium Hardware Warranty (36 Months)** | R6B-O 36 Months Premium Warranty Advance Replacement with NBD Ship |
| **RWWSC8E259** | **R6B-O Premium Hardware Warranty (60 Months)** | R6B-O 60 Months Premium Warranty Advance Replacement with NBD Ship |

| R6B-O Subscription Plans | | |
|---|---|---|
| **RWHSC4N200** | **R6B-O Essential Subscription for 12 Months includes** | › Cloud Subscription<br>› Essential Support<br>› L3 Networking<br>› RRM |
| **RWHSC6N200** | **R6B-O Essential Subscription for 36 Months includes** | |
| **RWHSC8N200** | **R6B-O Essential Subscription for 60 Months includes** | |
| **RWSSC4N241** | **R6B-O Connect Subscription for 12 Month includes** | › Cloud Subscription<br>› Essential Support<br>› L3 Networking<br>› RRM<br>› WAN Suite<br>› SD-WAN<br>› SASE |
| **RWSSC5N241** | **R6B-O Connect Subscription for 36 Months includes** | |
| **RWSSC8N241** | **R6B-O Connect Subscription for 60 Months includes** | |
| **RWHSC4N201** | **R6B-O Protect Subscription for 12 Months includes** | |
| **RWHSC6N201** | **R6B-O Protect Subscription for 36 Months includes** | |
| **RWHSC8N201** | **R6B-O Protect Subscription for 60 Months includes** | |
| **RWSSC4N242** | **R6B-O Total Subscription for 12 Months includes** | › Cloud Subscription<br>› Essential Support<br>› L3 Networking<br>› RRM<br>› Network & Web Protection<br>› Captive Portal<br>› WAN Suite<br>› SD-WAN<br>› SASE<br>› EYE<br>› Insights<br>› Vigil |
| **RWSSC6N242** | **R6B-O Total Subscription for 36 Months includes** | |
| **RWSSC8N242** | **R6B-O Total Subscription for 60 Months includes** | |

# USE CASES

Warehouse

Manufacturing Units

Public Wi-Fi/Hotspots

Schools

Smart Cities

# CASE STUDIES

## NPL Ltd.

Nairobi Plastics Ltd. manufactures plastic items and has big machines that are used to produce the same. With the increasing number of their customers & projects, the Nairobi Plastics Ltd. is working on enhancing their technologies, bringing in efficient equipment, focusing on potential emerging technologies for a value-driven product for their customers.

They are using R6B-O for the manufacturing facilities and administrative offices.

### Key Takeaways

Ray's R6A – C and R6A – O, secures and connects all devices across the manufacturing unit (indoors plus outdoors).

Many sensors are used to monitor the productivity & health of each machine, where most of them are IoT devices.

Ray's Content Policy filter objectionable (inappropriate) content. E.g.: P2P, Porn, criminal sites, etc.

The Speed and Quota policies are assigned to each one, based on the role that they are playing at the manufacturing unit.

The BYOD is approved by IT admins for all visitors, guests, delivery people, etc.

The embedded security in Ray access points protects the network and filter the Malware, Ransomware and Spam.

## Naivasha Safari Centre with Ray

The Naivasha Safari Centre is a retreat along the way from Nairobi to Uganda. There are almost 100, 000 vehicles, every week passing this way and spending some fun & leisure time here with their family & friends. It is widely spread in approximately 3000 m2 in different retail and gastronomic units.

### Key Takeaways

They are using R6A-C and R6B-O for their indoor & outdoor areas for constant and speedy internet connection for the numerous facilities that they are offering. Ray's R6A – C and R6A – O, secures and connects all devices everywhere – indoor games areas as well as outdoor sports playing fields.

The expanse for the Naivasha Safari Centre is big and its building & activity centres are spread out in far-off places and Ray access   points are placed at all ends for good connectivity.

Security is at the centre of all devices as this club has visitors on an everyday basis and they connect to the Wi-Fi with the promise of security.

Ray's Content Policy filter all the unwanted content beforehand only, so that it doesn't reach the user's device.

Privacy for everyone is maintained as this sports club has a string database of its members and visitors, which is safely stored.

RAY

# Our Clients

RAY.
Secure Networking