

Vega Wi-Fi 7

Dual-band Indoor ceiling Access point



Use Case:

Retail POS | CCTV
Surveillance | Transport & Logistics
BFSI Small Offices or Branches
Online Grocery Store

Highlights



Cloud Managed
Ray provides a multi-tier frame work to give users a controlled access through a single pane of glass. Role based admin rights available



Easy Set-up
Ray supports Zero Touch Initial Account Setup experience which easy and quick. Enterprise managed through a cloud which helps in monitoring & Visualization.



High- Speed & Sharp
Network is self-healing hence keeps wi-fi operating at its top. Comes with automatic data routing & software updates. Compatible with all devices including POS.



Lower TCO
Ray helps enterprise save money as well as upgrade and modernize the business making a significance gain in workforce efficiency



RAY ONE

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.

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

Key Specifications

SPECIFICATIONS	Vega Wi-Fi 7
AP Type	Indoor, Dual radio, 5 GHz and 2.4 GHz, 802.11be 2x2 MIMO
MIMO	2x2 SU-MIMO 2x2 MU-MIMO
Max Aggregate Frame Rate	Max. aggregate frame rate: Up to 3.57 Gbps › 2.4 GHz: 688 Mbps › 5 GHz: 2882 Mbps
WAN/LAN	1 x 2.5G Base-T Ethernet (RJ45) PoE 1 x 1G Base-T Ethernet (RJ45)
USE CASE	General Purpose Fits most indoor use case

Ray features

Ray ONE Cloud

Ray is entirely cloud-managed & has easy access from the device of your choice. You can now manage your network any time & anywhere. It gives you controlled access through a single pane of glass. Role-Based Admin Rights are a Unique Feature.

Wireless Range

Ensures internet coverage for different wireless devices such as smartphones, tablets, etc., connected to your network

Captive Portal

Ray has one of the most advanced Captive Portal systems with built-in Captive Portal. The Captive Portal itself can be configured with a step-by-step wizard to match the design aesthetics of the customer. The resulting captive portal is mobile friendly and responsive.

Security

Promotes the network security through WPA2/WPA3/OWE authentication for internet usage

Multi-Site Management

You can systematically manage and maintain different networks, sites, deployment, etc.

Increase Visibility & Efficiency

You can easily monitor and control all the connected and remove unauthorized users

Enterprise Grade Wi-Fi

Quickly expands the network connectivity, delivering open Wi-Fi access to numerous users while switching APs.

Smart Mesh

Create the mesh network in your location for network coverage extension in a few minutes.

PPPoE & Static IP

You can authenticate through the ISP's PPPoE server and quickly deliver static IP to all the APs present in your location.

Hierarchy/Cluster Management

Ray's Wireless Controller empowers efficient multi-site management. It enables hierarchical organization based on physical or logical locations, while offering role-based access control. Configuration changes at any level automatically apply to all sub-sites, ensuring consistent network settings. Its centralized dashboard provides a comprehensive view of all sites, and its flexible design allows for easy relocation of access points between sites with automatic setting updates.

Dashboard & Analytics

Ray's single-pane-of-glass Dashboard and insightful Analytics empower you with comprehensive network control and understanding. The Dashboard allows for remote operation, quota, time, and speed assignments, providing essential insights into individual usage, whether for enterprise employees or family members.



Dimensions & Interfaces

Vega Wi-Fi 7	
Wi-Fi Standards	802.11a/n/ac/ax/be
WIRELESS	
AP Type	Indoor, dual radio, 5GHz and 2.4GHz 802.11be 2x2 MIMO
MIMO	<ul style="list-style-type: none"> 2x2 SU-MIMO 2x2 MU-MIMO
Wi-Fi 7 (802.11be) Capabilities	<ul style="list-style-type: none"> DL-OFDMA, UL-OFDMA, TWT support, BSS Coloring 2 x 2 multiple input, multiple output (MIMO) with two spatial streams SU-MIMO, UL MU-MIMO and DL MU-MIMO support Maximal ratio combining (MRC) & beamforming Channel Width 2.4 GHz Support: 20 MHz, 40 MHz 5 GHz Support 20/40/80/160 MHz 4096-QAM and OFDMA allow better use of limited spectrum, MLO link Support Packet aggregation: A-MPDU, A-MSDU
Radio 2.4GHz	Four spatial stream Single User (SU) MIMO for up to 668 Mbps wireless data rate with individual 2SS EHT40 802.11be client devices simultaneously.
Radio 5GHz	Four spatial stream Single User (SU) MIMO for up to 2,882 Mbps wireless data rate with individual 2SS EHT160 802.11be client devices simultaneously.
Max aggregate frame rate	<ul style="list-style-type: none"> Max aggregate frame rate: Up to 3.57 Gbps 2.4 GHz: 668 Mbps 5 GHz: 2882 Mbps
Supported Data Rates	<ul style="list-style-type: none"> 802.11be: up to 3.57 Gbps 802.11ax: 4 to 1774 Mbps 802.11ac: 6.5 to 867 Mbps 802.11n: 6.5 Mbps to 300 Mbps (MCS0 to MCS15) 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11b: 11, 5.5, 2 and 1 Mbps
Supported frequency bands	<ul style="list-style-type: none"> Software enabled country-specific restrictions apply 2.412-2.484 GHz 5.150-5.250 GHz (UNII-1) 5.250-5.350 GHz (UNII-2) 5.470-5.600, 5.660-5.725 GHz (UNII-2e) 5.725 -5.825 GHz (UNII-3)
Supported Channels	Available channels dependent on configured regulatory domain <ul style="list-style-type: none"> 2.4GHz: 1-13 5GHz: 36-64, 100-144, 149-165 Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
Supported Radio Technologies	<ul style="list-style-type: none"> 802.11b: Direct-sequence spread-spectrum (DSSS) 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM) 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 16 resource units (RU)

Supported Modulation Types	<ul style="list-style-type: none"> 802.11b: BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 4096QAM modulation MLO (Multi-Link Operation) multi-link connection function
Radio Chains and Spatial Streams	2x2:2 streams SU/MU MIMO 5 GHz 2x2:2 streams SU/MU MIMO 2.4 GHz
Channelization/PHY Types	<ul style="list-style-type: none"> 802.11n high-throughput (HT) support: HT20/40 802.11ac very high throughput (VHT) support: VHT20/40/80/160 802.11be Extremely High Throughput (EHT) support: HE20/40/80/160
Wireless Authentication	<ul style="list-style-type: none"> WEP, WPA, WPA2-PSK, WPA3 - Personal, WPA3 - Enterprise, WPA3 - Enhanced Open (OWE) Dynamic PSK EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM MAC Whitelisting OTP based Authentication IEEE 802.1X based Authentications Captive Portal Based Authentications
Advance Features	<ul style="list-style-type: none"> Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks Maximum ratio combining (MRC) for improved receiver performance Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit antennas Short guard interval for 20-MHz, 40-MHz, and 80-MHz Space-time block coding (STBC) for increased range and improved reception Low-density parity check (LDPC) for high-efficiency error correction and increased throughput Transmit beam-forming (TxBF) for increased signal reliability and range
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"> Transmit Only Transmit/Receive (Attached Devices) Transmit/Receive (Unattached Devices)
Roaming/Mobility	<ul style="list-style-type: none"> Support for IEEE 802.11r or Fast BSS Transition (FT) Centralized Layer 3 roaming 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	2.4 GHz omni-directional 4 dBi with 5 dBi peak gain 5 GHz omni-directional 4 dBi with 5 dBi peak gain
RANGE/COVERAGE	
Range/Coverage	<ul style="list-style-type: none"> Up to 90 Meters in ideal testing environment. The range may vary as per the client environment, interference and obstruction.
WIRELESS SECURITY	
Wireless Security	Real-time WIDS with instant alerting Classify Types of Rogue AP <ul style="list-style-type: none"> Evil Twin Rogue AP
MESH	
SON based Mesh	<ul style="list-style-type: none"> Self-configuring Self-defending Self-healing 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	Maximal Ratio Combining (MRC)
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"> Limited by local regulatory requirements 2.4 GHz band: +26 dBm per chain, +26 dBm aggregate (2x2) 5 GHz band: +25 dBm per chain, +25 dBm aggregate (2x2) Note: conducted transmit power levels exclude antenna gain.
Transmit power	Configurable in increments of 0.5 dBm
Maximum EIRP (2.4 GHz band)	<ul style="list-style-type: none"> Limited by local regulatory requirements 2.4 GHz band: <ul style="list-style-type: none"> 565: 29.2 dBm EIRP 567: 33 dBm EIRP
Maximum EIRP (5 GHz band:)	<ul style="list-style-type: none"> Limited by local regulatory requirements 5 GHz band: <ul style="list-style-type: none"> 565: 31.4 dBm EIRP 567: 32.7 dBm EIRP
NMS INTEGRATION	
SNMP support	
PERFORMANCE	
Maximum number of associated client devices	Up to 50 active client devices per radio
Maximum number of BSSIDs	<ul style="list-style-type: none"> 16 BSSIDs per radio Up to 31 per AP
NETWORKING	
IP	IPv4, IPv6, dual stack

VLAN	<ul style="list-style-type: none"> 802.1Q (1 per BSSID or dynamic per user based on RADIUS) VLAN Pooling Port-based
802.1x	Authenticator & Supplicant
Tunnel	<ul style="list-style-type: none"> L2TP GRE/EoGRE Openvpn L2TP/IPSEC
Policy Management Tools	Application Recognition and Control <ul style="list-style-type: none"> Access Control Lists Device Fingerprinting Rate Limiting Integrated Layer 7 firewall with mobile device policy management Flexible guest access with device isolation
Quality of Service	<ul style="list-style-type: none"> WMM Access Categories with DSCP and 802.1p support QoS-based scheduling Directed Multicast L2/L3/L4 ACLs
Modes	<ul style="list-style-type: none"> Gateway Mode Bridge Mode
External Authentication	<ul style="list-style-type: none"> Authentication via Radius Authentication via LDAP Authentication via Single Sign-On (SSO) Authentication via Active Directory (AD)
Radius	Radius Option 82 Support
Tunnel	<ul style="list-style-type: none"> L2TP GRE/EoGRE Openvpn L2TP/IPSEC PPTP Wireguard/SSL
L3 Features	Routing Protocols: <ul style="list-style-type: none"> Static routes Network Address Translation (NAT) Dynamic Host Configuration Protocol (DHCP) server, relay and client
GUEST CAPTIVE PORTAL	
Guest Captive Portal Authentication Modes	Support for Third Party Captive Portal
FIRMWARE	
Flash Security Updates (No Reboot Required) Cloud Managed Firmware Updates	
PHYSICAL INTERFACES	
Ethernet (WAN)	1 x 2.5G Ethernet (RJ45) Power over Ethernet (802.3af/at) with Category 5/5e/6 cable PD. <ul style="list-style-type: none"> LLDP Auto-sensing link speed and MDI/MDX 802.3az Energy Efficient Ethernet (EEE)

Ethernet (LAN)	1 x 1G Ethernet (RJ45) LLDP
Reset Button	Reset to the factory default settings
Indicators	One multi-color status LED
DC Power	1 x DC power connector
MOUNTING	
Mounts to walls and ceilings in horizontal, vertical direction. All standard mounting hardware included	
ENVIRONMENT	
Operating temperature	0°C to 50°C
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 power consumption	20 W
Maximum power consumption in idle mode	6.1 W
Power over Ethernet (PoE+):	802.3at-compliant
RELIABILITY	
Mean Time Between Failure (MTBF): 75,000 hrs at +25°C operating temperature	

CONTROLLER	
Public Cloud	Ray ONE hosted on Public Cloud
Private Cloud	Ray ONE hosted on Private Cloud/Datacenter
REGULATORY COMPLIANCE	
CE Marked For more country-specific regulatory information and approvals, please see your Ray representative.	
WARRANTY	
As per the purchased SKU	
BOX CONTENTS	
<ul style="list-style-type: none"> › Standard Mounting Kit › Ethernet Cable › Quick Start Guide 	



Subscriptions

ESSENTIAL

Cloud Subscription	Support (8 x 5)	L3 Networking	Advance Wireless & RRM	WAN Suite
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Hardware Warranty :

Essential Hardware Warranty

Available for 1, 3 & 5 Years; Return-to-Factory shipping

For more details on warranty visit: www.ray.life

Software Support :

Essential Software Support

Available for 1,3 & 5 Years

Support time 8*5

Ordering Mechanism

Ray Vega Wi-Fi 7 Hardware

SKU	Product Name	Description
RWHCC0N677	Ray Vega Wi-Fi 7	Wi-Fi 7 (802.11be) Indoor/Ceiling Wireless Access Point <ul style="list-style-type: none"> › 3570 Mbps › 2x2 MIMO › 1 x 2.5G (WAN, PoE) › 1 x 1G (LAN)

Ray Vega Wi-Fi 7 Hardware Warranty

RWWESC12N785	Vega Wi-Fi 7 Essential Hardware Warranty (12 Months)	Vega Wi-Fi 7 Essential Hardware Warranty Return & Replace Hardware Warranty
RWWESC12N785	Vega Wi-Fi 7 Essential Hardware Warranty (36 Months)	Vega Essential Hardware Warranty Return & Replace Hardware Warranty
RWWESC12N785	Vega Wi-Fi 7 Essential Hardware Warranty (60 Months)	Vega Wi-Fi 7 Essential Hardware Warranty Return & Replace Hardware Warranty

Ray Vega Wi-Fi 7 Subscription

RWSESC12N786	Vega Wi-Fi 7 Essential Hardware Warranty (12 Months)	Ray Vega Wi-Fi 7 Essential Subscription Includes Cloud Subscription <ul style="list-style-type: none"> › Support (8 x 5) › L3 Networking › RRM › WAN Suite
RWSESC12N786	Vega Wi-Fi 7 Essential Hardware Warranty (12 Months)	
RWSESC12N786	Vega Wi-Fi 7 Essential Hardware Warranty (12 Months)	

Use Cases

▼ Corporate Offices



▼ Restaurants/Hotels



▲ Educational Institutions



▲ Hospitals

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