

Edge Nano V2

Edge Gateway

For Small Branches

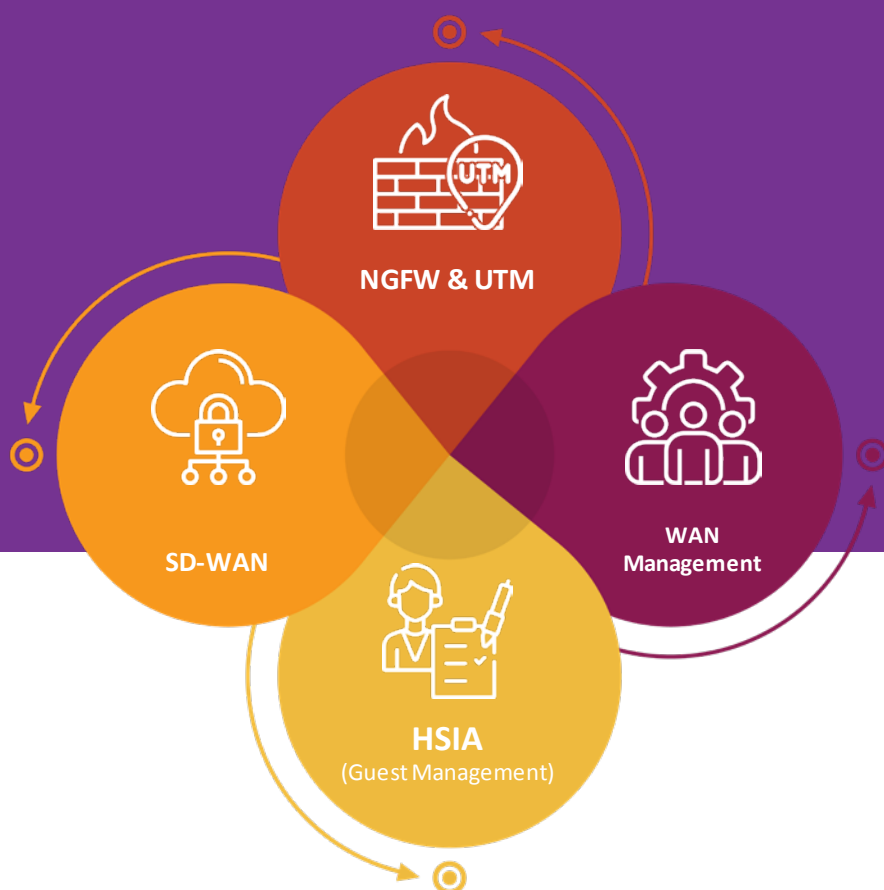


Edge Nano V2



› ATM, Smart Utilities , Kiosks

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



The Ray Edge Nano V2 is a compact networking solution designed for small spaces such as ATMs and kiosks. With its 2x2 MIMO & Wi-Fi-4 capability, this desktop device offers reliable wireless connectivity. It acts as a bridge between the local network and the internet, ensuring secure and efficient communication. The Ray Edge Gateway prioritizes data security, incorporating advanced encryption protocols and robust security features. Its compact size allows for easy installation in tight spaces, making it an ideal choice for enhancing connectivity and security in constrained environments.

- Ray combines the features of multiple specialty product lines into One single EDGE Product line.
- Edge is offered in both Physical Appliance and Virtual format.
- Edge is managed from the same Ray Platform that manages the Ray Switch, Ray Wi-Fi and Ray Endpoint making the management fabric very simple.

Overview

Ray's cutting-edge convergence solution effortlessly scales to any location, whether it's a remote office, branch, campus, data center, or cloud environment. Our innovative hybrid mesh firewall system is expertly managed through Ray Unified Management, ensuring seamless security across intricate hybrid infrastructures. Powered by the Ray One, our solution offers unparalleled visibility and security in multiple form factors.

Ray's Secure SD-WAN solution delivers exceptional speed, scalability, and adaptability both on-premises and in the cloud. Designed with cloud-first, security-conscious, and global enterprises in mind, Ray Secure SD-WAN also caters to the evolving needs of hybrid workforces. Our Integrated Networking approach employs a single operating system, streamlining SD-WAN, next-generation firewall (NGFW), advanced routing, and Zero Trust Network Access (ZTNA) application gateway capabilities.







Seamlessly Merging Security and Networking

With the rise of cloud computing and hybrid work, organizations require anywhere, anytime access from any device. Traditional network architectures struggle to support this shift, causing poor user experiences and administrative complexities.

Ray's innovative Unified SASE Platform addresses these challenges by combining a wide range of networking and security capabilities into one streamlined platform. Ray One features a unified console, cohesive policy management, and a shared data lake. Our application-aware, traffic-engineered fabric simplifies design, deployment, and life cycle management for the modern digital landscape.

For More Refer our White paper on SD-WAN.

Features

- | | |
|---|--|
|  Acceleration
Architecture for improved performance, greater ROI, and reduced power consumption. |  Content Control
User-based monitoring and control of keyword content and downloadable content. |
|  Secure SD-WAN
Optimize performance for SaaS, SD-WAN, and cloud traffic With Ray One. |  Business Applications
Protect critical applications with next-gen firewall and an enterprise-class web application firewall. |
|  One Console to Manage It All
Ray One provides a single cloud management console for all your Ray Product line. |  Phishing & Spam
Protect email from spam, phishing, and data loss with policy-based email encryption, DLP, and anti-spam. |
|  Reporting in the Cloud
Flexible reporting tools for analyzing and visualizing network data over time. |  Central Management
Powerful centralized management, reporting, and zero-touch deployment for all your Ray Product line. |
|  Isolate Infected Systems
Automatic threat response to identify and isolate compromised systems on your network. |  Central SD-WAN Orchestration
Easily set up complex site-to-site SD-WAN overlay networks. |
|  Zero-Day and ML Protection
Instantly identify the latest ransomware and unknown threats with machine learning technology. |  Central Firewall Reporting
Create custom views of network activity and threats across your entire network. |
|  Advanced Threat Protection
Instantly identify bots and other advanced threats while defending your network. |  Dashboard and Alerts
Respond quickly to changes in your network with a control center that analyzes extensive back-end data sources. |
|  User Identity
User identity-based policies and unique user risk analysis for better network control. |  Reporting
Extensive, free on-box reporting and limited cloud-based reporting at no extra charge. |
|  Application Control
Complete visibility and control over all applications on your network with deep-packet scanning technology. |  High Availability
Support |
|  Web Control
Full visibility and control over web traffic with flexible enforcement tools. | |

Secure SD-WAN Use Cases

Achieve Operational Efficiencies

Automate network design, deployment, and operation with a single pane of glass for comprehensive visibility, analytics, reporting, and orchestration.

Connecting Remote Workers

Offer remote or hybrid users client-based or clientless options for always-on connections to workloads in private or public clouds, with gateways based on proximity, load, and real-time variables.

Connecting Branch Offices

Empower branch or corporate offices with Ray Secure SD-WAN devices or third-party SD-WAN, routers, or firewalls for seamless access to workloads in private or public clouds and interoffice connections. Utilize Ray SD-WAN as an on-ramp for end-to-end observability and control over user/device-to-app performance and security.

Ray AI Powered Security Services



Antispam

Significantly reduce spam at the perimeter with a multi-layered approach to filtering email.



Central SD-WAN Orchestration

Enjoy easy setup of complex site-to-site SD-WAN overlay networks with Ray's cloud-managed SD-WAN orchestration.



ZTNA

Ray One integrates with Zero Trust Network Access (ZTNA) to provide a secure and straightforward way for users to access crucial applications and data.



Ray Edge Gateway

Experience the Ray Edge Gateway for an affordable, secure edge access device suitable for SD-Branch, SOHO, and industrial control solutions.



Core Networking

Utilize the most advanced enterprise-grade networking technology available for NAT, routing, and bridging with Firewall.

Ray HSIA

Complete control of User Wi-fi

You can easily create customized free and paid tiers that suit your hotel's unique requirements and seamlessly integrate with your own custom systems through its API. Providing guests with instant and customized connectivity has never been easier with the one-touch account slip printer that interfaces with Property Management Systems for hassle-free billing without staff intervention. Extremely helpful in hospitality use cases

Ray Customised Log-IN options

Ray HSIA is a one-stop gateway solution for schools and universities, providing optimized bandwidth and content filtering for multimedia classrooms and on-campus roaming, offices, dormitories, and hostels. With multiple authentication methods such as LDAP, SMS OTP, and many more, student logins are seamless and secure. The dual WAN link load-balancing and multi-tier QoS, including a guaranteed bandwidth option, ensures top performance during critical periods. User form authentication and lawful intercept provide added security and compliance with contact tracing requirements.

NGFW Use Cases



Enterprise

Equip your demanding network with enterprise-grade protection, performance, visibility, and SD-WAN features tailored for the modern business landscape.



Cloud

Safeguard public cloud infrastructure or hybrid networks with a robust cloud firewall solution designed for diverse network environments.



All-in-One

Simplify and consolidate protection for small offices with an affordable, comprehensive security solution that delivers the best value and protection.



Retail and Branch

Address the unique challenges of retail and distributed organizations with branch offices for seamless, secure connectivity.



Schools

Cater to the specific requirements of educational institutions with RAY One's compliance and protection features designed for a safe learning environment.

Ray Multi Wan

Load Balancing

Experience seamless connectivity with Ray Multi-WAN's Load Balancing feature. It intelligently distributes network traffic across multiple paths, ensuring optimal internet performance and resilience against any single point of failure. With load balancing, you can make the most of your bandwidth, optimizing resource utilization and enhancing your online experiences.

Complete control of User Wi-fi

With Ray Multi Wan Traffic Steering, an advanced network feature that offers unparalleled control over the flow of various types of traffic within your network. Whether it's video streams, ERP sessions, HTTP sessions, or other types of traffic, you can easily prioritize or limit the bandwidth of each one to ensure optimal network performance. With Ray Multi-WTraffic Steering, you can tailor your network to suit your specific needs and deliver an exceptional user experience. Say goodbye to network congestion and hello to a more efficient and streamlined network.

Bandwidth Policy Management

Introducing Bandwidth Management, an innovative feature that offers instant access to improvised WAN connections anytime and anywhere. With this feature you can stay connected on the go without any limitations or restrictions. Whether you're traveling to a new city or working remotely, Ray Multi-WAN has got you covered with a tailored solution that meets your unique needs. Experience the freedom of seamless connectivity.

USE CASES

**ATMs:**

Ray Edge Nano ensures reliable connectivity and enhanced security for ATM machines, facilitating secure financial transactions.

**Kiosks:**

With its compact design and advanced networking capabilities, the Edge Nano provides seamless connectivity and data protection for various kiosk applications, such as self-service terminals and interactive displays.

**Small Offices:**

The Ray Edge Nano offers efficient networking and secure data transmission for small office environments.

**Small Smart Utilities:**

This versatile device facilitates reliable connectivity and data management for small-scale smart utility deployments, such as monitoring and controlling smart meters or sensors in utility infrastructure.



RAY ONE

CORE COMPONENTS



RAY Essential



RAY Premium

Services



Edge
Gateway



Switch



Wi-Fi



Sase

Products



Orchestration



Integration



Automation

Centralized
Management



SD-Wan



Firewall



HSIA



Multiwan

Security driven
Networking



Linux
Networking



Multiple
Interfaces



Hardware

Ray OS



Appliance



Virtual

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.



Cloud Architecture

Ray Always One Cloud is Smallservices bring unparalleled agility, scale, resiliency. Ray makes it easy to add or remove new features by leveraging a Smallservices 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.

Specifications

Specifications	Nano v2
Recommended Deployment	
ATM/Small Branch	
Dimensions	
Height x Width x Length (mm)	128 x 26 x 113
Weight	800 g
Form Factor	Desktop
Enclosure Material	Metal
Hardware Specifications	
100M RJ45 WAN/LAN Ports	3
GE RJ45 WAN/LAN Ports	0
GE RJ45 PoE/+ Ports	0
2.5 Gbps RJ45 WAN/LAN Ports	0
PoE Output	N.A.
Expansion Slots	0
Cellular Connectivity	
SIM Slots	2 (Active - Passive)
4G Cellular Modem	EC200A-CN
Compatible Region	China/India
LTE Frequency Bands	
LTE-FDD	B1/B3/B5/B8
LTE-TDD	B34/B38/B39/B40/B41
WCDMA	B1/B5/B8
GSM/EDGE	B3/B8
LTE Data Rates	
LTE-FDD (Mbps)	150 (DL)/50 (UL)
LTE-TDD (Mbps)	130 (DL)/30 (UL)
DC-HSPA+ (Mbps)	21 (DL)/5.76 (UL)
WCDMA (kbps)	384 (DL)/384 (UL)
EDGE (kbps)	236.8 (DL)/236.8 (UL)
GPRS (kbps)	85.6 (DL)/85.6 (UL)
Management Ports	
Console Port (RJ45)	N.A.
Other Interfaces	
USB Ports	N.A.

System Performance

Onboard Storage	N.A.
Expandable Storage	N.A.
Routing	128 Mbps
Stateful Firewall	80 Mbps
SD-WAN DIA	10 Mbps
SD-WAN Site-to-Site	5 Mbps
NGFW with SD-WAN	N.A.
NGFW + AV with SD-WAN	N.A.
NGFW + IPS with SD-WAN	N.A.
NGFW + UTM with SD-WAN	N.A.

Wireless Specifications

Wi-Fi Standard	Wi-Fi 4
Multiple (MU) MIMO	2x2 MIMO
Maximum Wi-Fi Speeds	300 Mbps
Antenna Gain	4 dBi

Environmental

Operating temperature	– 0 to 60 deg C
Operating relative humidity	10% to 90% noncondensing
Nonoperating/Storage temperature	-40°C to 70°C
Nonoperating/Storage relative humidity	10% to 90% noncondensing

Power

AC Power Input	12V DC
AC Current (Maximum)	2A
Redundant Power Supplies (Hot Swappable)	N.A.

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 Warranties

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

RAY Edge Nano V2 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	Support time 24*7
Email Support Email Support	Email Support
Web Support Web Support	Web Support
Chat Support Chat Support	Chat Support

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

Ordering Mechanism

Ray Edge Nano V2 Hardware

Ray Edge Nano V2	Product Name	Description
REEGCC0N347	Ray Edge Nano V2	<ul style="list-style-type: none"> › Ray Edge Nano › 3 x 10/100 Mbps (WAN/LAN) › 2x2 300 Mbps Wi-Fi 5 › 2 x SIM Slots (Active Passive) › 1 x 4G Cellular

Ray Edge Nano V2 Subscription Plans

RESCSC4N292	Ray Edge Nano V2 Connect Subscription for 12 Months	<ul style="list-style-type: none"> › Edge Nano V2 Connect Subscription for 12 Months Includes › Cloud Subscription › Essential Support › L3 Networking › RRM › WAN Suite › SD-WAN › SASE
RESCSC4N292	Ray Edge Nano V2 Connect Subscription for 36 Months	
RESCSC4N292	Ray Edge Nano V2 Connect Subscription for 60 Months	
RESPSC4N293	Ray Edge Nano V2 Protect Subscription for 12 Months	<ul style="list-style-type: none"> › Edge Nano V2 Connect Subscription for 12 Months Includes › Cloud Subscription › Essential Support › L3 Networking › RRM › WAN Suite › SD-WAN › SASE › Network & Web Protection › Captive Portal
RESPSC4N293	Ray Edge Nano V2 Protect Subscription for 36 Months	
RESPSC4N293	Ray Edge Nano V2 Protect Subscription for 60 Months	

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