

Innovators of Industrial Wireless Edge Solutions & Distributed Computation Technologies

Rajant is the industrial wireless edge network solution provider powered by the **patented Kinetic Mesh® network, BreadCrumb® wireless nodes, and InstaMesh® software operating systems.**

Rajant edge networking solutions are beyond connectivity - they offer the adaptability, flexibility, intelligence, and mobility required to connect to, communicate with, and control assets and personnel to deliver the business outcomes that customers are looking for - critical business intelligence to the next level.

Customers can rapidly deploy highly adaptable and scalable edge networking solutions – leveraging the real-time analytical power of our Cowbell edge computing platform, Edge Crumb, our edge compute wireless node and Q-Stat wearables to take on-demand, mission- critical business intelligence to the next level

In today's AI driven connected industries, organizations have highly dynamic operating environments that need edge network solutions that deliver tangible business outcomes. These edge network solutions rely on an ever-growing number of sophisticated applications to support the increasing numbers of personnel, vehicles, and equipment operating in remote, geographically-dispersed locations.

Why Rajant?

Creating paradigms while others follow them.

Knowing organizations want both internal control over infrastructure, data, and applications, as well as the benefits these powerful business enablers provide, Rajant focused its research and development efforts on delivering its unique Kinetic Mesh networks and our Cowbell edge computing and orchestration platform. Whether provisioning a new network or expanding existing infrastructure and capabilities, Rajant's wireless edge networks leverage our industry leading technology to provide continuous on-the-move access to data, applications, and analysis in real time. Our CowBell edge compute platform applies advanced distributed computing and unparalleled service orchestration that truly differentiate Rajant.

Today, Rajant is a leading provider of edge network solutions tailored to specific vertical markets that are proven to deliver unparalleled reliability, performance, scalability, and security in an easy-to-deploy, portable footprint. Rajant's Rajant edge networks are uniquely equipped to handle the complexities of today's evolving industrial operations. The underlying technology powers the Living Network™—a “living” mesh solution that moves and evolves to meet today's and tomorrow's industrial wireless edge network demands. Rajant networks can transform virtually any asset into network infrastructure, interconnecting diverse environments and all the things that move within them.

How We Started

Seeing opportunities where others see obstacles.

Rajant Corporation is a global company headquartered outside of Philadelphia, PA. When Rajant's founders saw the weaknesses with mobile voice and data networks during the events of 9-11, they envisioned a truly mobile network that would provide anywhere anytime voice, video, and data communications. In 2001, Rajant rolled out its Kinetic Mesh solution and began delivering wireless networks that offer highly reliable connectivity regardless of conditions, provide robust security, grow stronger as network nodes are added, and allow all wireless nodes to be in motion at all times. These powerful networks consist of industrial-strength Rajant BreadCrumb wireless nodes powered by Rajant's patented¹ InstaMesh networking protocol. Building on its initial success in extremely demanding military deployments, Rajant quickly expanded its reach into industries such as mining, energy, rail, and ports.

Recognizing the need to address the intense computational demands that characterizing edge network environments, Rajant developed - Edge-Computing OS Platform and orchestration solutions for healthcare, biomedical and industrial applications, enabling real-time data analysis and AI decision-making. These edge compute solutions leverage the CowBell OS platform and the EdgeCrumb our wireless edge compute node. To complement this Rajant also developed Q-stat – a wearable health monitoring, environmental sensing, and advanced genomics analysis, delivering innovative tools that support precision medicine and next-generation healthcare.

¹ U.S. Patent 8341289B2

Technology Differentiation

Rajant Kinetic Mesh networks work autonomously to provide optimal connectivity across an organization's dynamic environment of fixed and mobile assets, delivering robust applications in real-time. They feature total mobility, proven resiliency, rapid scalability, extreme ruggedness and security, and maximum bandwidth utilization. Whether deploying a network with ten or several hundred nodes, Rajant wireless edge networks provide several key features, including multi-frequency, multi-transceiver transmissions; military-grade security; no controller-node requirement; built-in redundancy with no single point of failure; self-configuring, self-healing operations; and ease of rapid set-up and deployment.

Rajant solutions easily integrate with existing satellites, LTE, 5G, fixed wireless, and Wi-Fi. And, Rajant Kinetic Mesh is the only solution proven to establish and sustain any-node-to-any-node communications across hundreds of high-bandwidth nodes with no single point of failure while providing high quality-of-service for years—unattended.

Rajant's wireless edge networks enable industrial AI with the inclusion of CowBell - our advanced edge compute and service orchestration platform technology that provides continuous on-the-move access to data, applications, and analysis in real time. CowBell applies advanced distributed computing and unparalleled service orchestration that truly differentiates Rajant – especially in industrial applications.

Markets We Serve

Indoor, outdoor, or underground—we've got it covered.

Rajant's reliable Kinetic Mesh solution makes it easy to stay connected. Whether your work takes you indoors, outdoors, or underground, Rajant's technology ensures fast, reliable communication—especially in harsh conditions.

Outdoor

Whether it is automating an open pit mine, optimizing operations in a port or off shore oil platform or equipping rural areas with broadband to helping to transform grids in the energy sector, Rajant's intelligent edge networks satisfy the critical, real time demands that outdoor operations require. Rajant Kinetic Mesh is built to withstand the roughest environments and everchanging conditions surpassing the limitations of other industrial edge networking options.

Underground

Rajant networking solutions offer extended network range and built-in redundancy to guarantee the most reliable wireless underground network for V2X/M2M communications. Even with space constraints and unmovable underground structures, Rajant's wireless edge network solutions provide robust alternatives to fiber that overcome the networking challenges inherent to underground mining and other tunneled construction site operations.

Indoor

Industrial operations become smarter, more autonomous, and fully mobile with Rajant Kinetic Mesh. From warehouses to fulfillment centers to indoor farms, Rajant delivers high performance edge solutions for extended-range M2M communications without the need for expansive infrastructure.

Partner Program

Our Rajant Partner Program is designed to help partners professionally specify, design, and install Rajant edge network solutions. By working with strategic partners in each of the vertical markets we address we bring end to end solutions with the vertical specific applications our customers seek. Rajant provides multiple levels of training, technical resources, and marketing and sales tools to help businesses drive and close sales at every stage of the sales cycle. It's a conduit that connects our partners to us—and one another.

Fully Mobile, Always Adaptable

Rajant Kinetic Mesh networks work autonomously to provide optimal connectivity across an organization's dynamic environment of fixed and mobile assets, delivering robust applications in real-time. They feature total mobility, proven resiliency, rapid scalability, extreme ruggedness and security, and maximum bandwidth utilization.



Cowbell

A versatile Hardware-agnostic, OS-agnostic, Network-agnostic, Scalable, Secure, and Resilient, Distributed Edge Computing Platform-as-a-Service.



QStat

Developed by Rajant Health Incorporated (RHI), is an advanced wearable designed for cutting-edge remote health monitoring and connectivity.



Peregrine

High-performance, quad-radio, industrial-grade, wireless Kinetic Mesh BreadCrumb that offers quad MIMO transceivers.



Peregrine LTE

High-performance BreadCrumb equipped with LTE capabilities, allowing agile and reliable M2M and P2P communications.



Hawk

Industrial-grade, high-performance BreadCrumb platform that offers dual MIMO transceivers, higher throughput, and enhanced security performance.



ES1

Commercial-grade Kinetic Mesh network device ideal for IIoT applications and deployment on light-duty vehicles, operating in challenging network environments.



Cardinal

Rajant's credit card-sized BreadCrumb, tailored for warehouse automation and robotics, is powerful, lightweight, and designed to solve Wi-Fi and LTE wireless limitation issues.



Sparrow

An IP67 radio ideal for nonautonomous tele-remote, IIoT, and heavy and light-duty applications with dual 2X2 MIMO transceivers.

Discover how Rajant can leverage our intelligent edge networks to deliver the business outcomes your company needs. Learn more about Rajant solutions at www.rajant.com.

Tel: 484.595.0233 | www.rajant.com

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INTELLIGENT EDGE
Enabling Industrial AI