

A Trailblazer Dedicated to **Innovating** **Wireless Communication** Technologies

Rajant is the exclusive provider of private wireless mobile networks powered by the **patented Kinetic Mesh® network, BreadCrumb® wireless nodes, and InstaMesh®**. Customers can rapidly deploy a highly adaptable and scalable network—leveraging the power of real-time data to deliver on-demand, mission-critical business intelligence.

Today, organizations are highly dynamic operating environments that 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. As a result, mobility has become a major driver shaping networking requirements. Simultaneously, the Internet of Things (IoT), machine-to-machine (M2M) connectivity, and autonomy are helping improve productivity, streamline operations, and control costs. To interact with and manage this “network of things,” network infrastructures must be fully mobile enabled and provide optimal broadband connectivity organization-wide. This has created a growing demand for private wireless mesh networks.

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, and that satellite, LTE, Wi-Fi, and other fixed wireless networks have inherent limitations, Rajant focused its research and development efforts on delivering its one-of-a-kind Kinetic Mesh networks. Whether provisioning a new network or expanding existing infrastructure and capabilities, Rajant’s private wireless mesh networks provide continuous on-the-move access to data and applications in real time. Today, Rajant is the category leader in providing mesh networks that are proven to deliver unparalleled reliability, performance, scalability, and security in an easy-to-deploy, portable footprint.

Rajant’s Kinetic Mesh networks are uniquely equipped to handle the complexities of today’s evolving industrial operations. The technology behind Kinetic Mesh powers the Living Network™—a “living” mesh solution that moves and evolves to meet today’s and tomorrow’s connectivity demands. Rajant networks can transform virtually any asset into network infrastructure, interconnecting diverse environments and all the things that move

within them. They offer the adaptability, flexibility, intelligence, and mobility required to connect to, communicate with, and control assets and personnel whenever and wherever needed.

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.

¹ U.S. Patent 8341289B2

Technology Differentiation Inventing paradigms while others follow them.

Seeing the inherent limitations in traditional wireless mesh networks, Rajant took a completely different and highly innovative approach with its Kinetic Mesh solutions. Whether deploying a network with ten or several hundred nodes, Rajant wireless 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.

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—even in harsh conditions.

Indoor

Industrial operations become smarter, more autonomous, and fully mobile with Rajant Kinetic Mesh. From warehouses to fulfillment centers to indoor farms, Rajant solves Wi-Fi problems for extended-range M2M communications without expansive infrastructure.

Outdoor

From equipping rural areas with broadband to powering the energy sector as well as automating open-pit mines, Rajant's powerful wireless network meets the critical, time-sensitive demands that outdoor operations require. Rajant Kinetic Mesh is built to withstand even the roughest environments and ever-changing conditions overcoming the limitations of other industrial networking options, like LTE.

Underground

Rajant's Kinetic Mesh offers extended network range and built-in redundancy to guarantee the most reliable wireless underground communications for V2X/M2M the market can offer. Even with space constraints and unmovable underground structures, Rajant's wireless network provides a robust alternative to fiber overcoming the vast networking challenges inherent to enabling communications inside tunneled construction sites and other underground operations, like mining.

Partner Program

Our Rajant Kinetic Mesh Partner Program is designed to help partners professionally specify, design, and install Rajant Kinetic Mesh solutions. 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.



Peregrine

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



Peregrine LTE

A high-performance BreadCrumb equipped with LTE capabilities, allowing agile and reliable machine-to-machine and peer-to-peer communications.



Hawk

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



ES1

A commercial-grade Kinetic Mesh network device ideal for IIoT applications and deployment on light-duty vehicles, operating in challenging network environments that can use a less ruggedized solution.s into existing networks.



DX2

A BreadCrumb designed for private wireless networks on lightweight autonomous vehicles and integrates seamlessly with all Rajant BreadCrumb models to form a complete solution.



JR3

A series of wireless mesh network nodes that are lightweight and portable communications options for edge, body-worn, or equipment-mounted applications.

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.

Discover how Rajant can help you stay connected—no matter how your team operates. Learn more about Rajant's one-of-a-kind technology at www.rajant.com.

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If it's moving, it's Rajant.
Industrial Wireless Networks **Unleashed.**