

# 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 the 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 just 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 2002, the Company rolled out its Kinetic Mesh solution and began delivering wireless networks that deliver 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 patented<sup>1</sup> InstaMesh® networking protocol. Building on its initial success in extremely demanding military deployments, Rajant quickly expanded its reach into industries, such as mining and oil and gas.

<sup>1</sup> 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; physical-layer data rates to 300 Mbps; military-grade security; no controller-node requirement; built-in redundancy with no single point of failure; and self-configuring, self-healing operations. Rajant solutions easily integrate with existing satellite, LTE, 3G/4G, fixed wireless, and Wi-Fi networks. And, Rajant's Kinetic Mesh networks are the only solutions 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 Served Customer Support

Forming markets while others chase them.

While Rajant's initial success was built on military, mining, and oil and gas, the Company is uniquely positioned to serve many additional markets such as transportation, ports, agriculture, and civil government. Rajant Kinetic Mesh networks are helping organizations increase productivity, improve safety, and cut costs in a wide array of scenarios, involving manned and autonomous vehicles such as trucks, dozers, police cars, trains, and buses, as well as unmanned ground vehicles (UGVs) and unmanned aerial vehicles (UAVs). Rajant solutions support many diverse applications, including monitoring and managing vehicle and equipment health, assets, video surveillance, vehicle speeds and locations, first responder communications, convoy communications, and border crossings.

### Customer Support

Putting customers first.

With thousands of nodes deployed worldwide, Rajant solutions impact the crucial inner-workings of its customers' operations and processes, and that is a responsibility the Company takes seriously. So, Rajant consistently strives to meet or exceed the promises we make to our customers. For more than a decade, Rajant customers have rated the Company's support services as superb and unparalleled. That commitment to customer service extends globally through Rajant's trained and authorized Kinetic Mesh partner network. Authorized distributors, integrators, and solution providers provide pre- and post-sales support to customers worldwide, offering local and regional installation, configuration, operations, management, troubleshooting, and diagnostics services. And, Rajant backs up its partners with training, technical support, and engineering expertise to ensure that each customer's system is delivering the benefits promised.

## The #1 Choice Around the World for Mobile Networking

Through Rajant's unequalled ability to turn mobile assets into network infrastructure, organizations are empowered to take private network applications and data everywhere. That's why Rajant Kinetic Mesh® networks are used around the world and across a broad array of industries, including military, industrial, transportation, utilities, telecommunications, and all levels of governments.



#### LX Series

Our premier BreadCrumb® solution recommended for building and expanding core mesh infrastructures.



#### ME Series

Our mid-level BreadCrumb® solution, an ideal alternative for adding wireless infrastructure and mobile nodes into existing networks.



#### KM Series

Our non-ruggedized BreadCrumb® solution intended for deployment inside pre-existing outdoor NEMA enclosures without the IP67 housing.



#### ES Series

Our IP67 rated, commercial grade BreadCrumb® solution, ideal for IIoT markets and light-duty vehicles.



#### DX Series

Our smallest lightest BreadCrumb®, ideal for lightweight autonomous vehicles, drone swarms, small robots, and safety vests.



#### JR Series

Our single-transceiver, single-antenna system for private wireless networks on light-duty vehicles, edge devices, and remote Access Points.

Discover how Rajant can enable you to rapidly deploy a highly adaptable and scalable network that leverages the power of real-time data at [www.rajant.com](http://www.rajant.com).

Tel: 484.595.0233 | [www.rajant.com](http://www.rajant.com)

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