RAJANT

AGRICULTURE

RAJANT KINETIC MESH®

SMARTTECH® AUSTRALIA

Rajant's Largest Australian Partner

SmartTech Australia

1800 655 860

www.smarttechaustralia.com.au

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RAJANT KINETIC MESH®

Rajant Intelligent Edge: Expanding Precision Farming Horizons

Rajant Kinetic Mesh® networks deliver more than connectivity—they provide seamlessly integrated, transformative solutions tailored to the evolving needs of modern farming. Are you grappling with coverage gaps in LTE or Wi-Fi across your fields? Rajant redefines possibilities by enhancing existing networks with innovative technology. It's about expanding horizons, enabling applications and capabilites throught AI, integrated communication systems, and driving technological advances for agricultural companies.

We integrate with LEO Satellite, carrier-grade cellular, and Point-to-Point (PTP) wireless, leveraging open wireless standards to extend your farming operations' reach.
Already using LEO Satellite? Rajant connects seamlessly, enhancing data throughput and connectivity speed across your farm. Traverse larger distances with Satellite backhaul and boost property coverage with Kinetic Mesh, supporting fixed and mobile assets—whether powered by solar or battery. Our BreadCrumbs® adapt to any asset type, enabling precision planting, detailed field mapping, and efficient harvesting to maximize every inch of fertile land.

Integrated Networks: Powering Agile Autonomous Farming with Industrial AI

Rajant BreadCrumbs® go beyond traditional networks, offering seamlessly integrated peer-to-peer connections across multiple frequencies for unmatched redundancy and resilience. This intelligent edge powers an Industrial Internet of Things (IIoT) ecosystem, linking tractors, unmanned ground vehicles (UGVs), soil sensors, and more. By integrating with LEO Satellite, carrier- grade cellular, and PTP wireless, Rajant extends agricultural data reach, driving real-time decision-making with Industrial AI. Our BreadCrumb nodes, designed for any asset—fixed or mobile, solar- or battery-powered—move with your equipment, delivering ubiquitous coverage over vast acreage. This seamlessly integrated approach enhances the agility of autonomous farming machinery, unlocking efficiency and innovation.

Maintain the Range & Mobility You Require, Even in Hard-to-Network Areas

Outdoor farming environments present challenges—vast acreage, natural obstacles, and shifting topography can disrupt signals. Rajant Kinetic Mesh networks overcome these with seamlessly integrated multiple connections for inherent redundancy. Our technology autonomously balances traffic, routes around obstacles, and adapts to terrain changes, ensuring uninterrupted performance. This resilience eliminates costly downtime, supports real-time data, voice, and video applications, and thrives in challenging rural landscapes with minimal infrastructure and management.

Support Machine-to-Machine (M2M) Communications Between Farming Equipment

Elevate your farm with Rajant's seamlessly integrated M2M-enabled network, unleashing the potential of autonomous machinery and robotics. Our BreadCrumb nodes enable peer-to-peer communication via multiple, simultaneous connections, creating a "never-break" mobile network. By connecting tractors, fleets, UGVs, soil sensors, and more into an IIoT framework, Rajant extends connectivity wherever assets roam, fostering collaboration and efficiency. This seamlessly integrated solution provides comprehensive coverage over vast fields, empowering machinery to work in harmony.

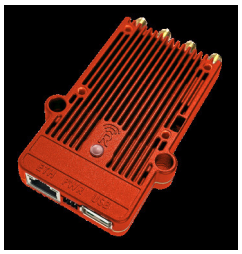
Real ROI for Agricultural Operations

Rajant Kinetic Mesh transforms your farm into a profitable, sustainable enterprise with tangible business outcomes:

- Enhance Productivity: Maximize asset performance and longevity while minimizing downtime caused by signal loss.
- Improve Yield: Automate precision planting, field mapping, and harvesting to unlock every acre's potential.
- Increase Revenue: Reduce labor costs with automated equipment and IIoT networks, boosting crop output and market readiness.
- Enable Responsible & Sustainable Farming: Mitigate climate impacts by optimizing land use, monitoring soil health, and refining irrigation efficiency.

Rajant Offers a Variety of Products for Your Specific Application Demands

Sparrow
Compact and versatile, ideal for small-scale precision tasks.



Cardinal
Robust and scalable, perfect for medium to large operations.

Hawk
Robust and scalable, perfect for medium to large operations.

The #1 Choice
Fully Mobile, Always Adaptable

Rajant's seamlessly integrated wireless networks and edge-computing systems deliver optimal performance for fixed and mobile agricultural assets. Experience real-time success with total mobility, proven resiliency, rapid scalability, extreme ruggedness, enhanced security, and maximum bandwidth utilization. Lead the industry with Rajant's Reliability, Redundancy, and Resiliency, powering Industrial AI solutions.

CONTACT RAJANT'S LARGEST AUSTRALIAN PARTNER

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