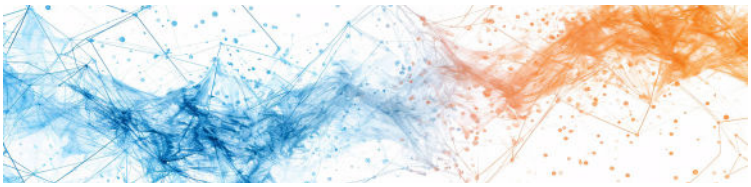
RAJANT KINETIC MESH®

Integrated Point-to-Point
Features / Benefits / Value

Introducing the Integrated P2P Connectivity Solution from Rajant – the future of seamless, uninterrupted networking. Our cutting-edge product uniquely combines the reliability of point-to-point connections with the flexibility of mesh network technology, ensuring your operations never miss a beat.

Description

The Rajant Integrated P2P Connectivity Solution represents a groundbreaking advancement in network technology, ingeniously blending the direct, reliable connections of point-to-point (P2P) networking with the versatile, resilient architecture of mesh networks. This innovative product is engineered to deliver superior network resilience and long range communications, ensuring continuous, uninterrupted connectivity even in the most challenging environments. Designed with scalability and ease of management in mind, it allows for seamless network expansion and simplification of complex configurations, making it an ideal choice for a wide range of applications. From long lasting industrial automation to temporary cell deployments, the Rajant Integrated P2P Connectivity Solution offers optimized performance, extended coverage, and robust connectivity, adapting dynamically to meet the diverse needs of its users. By providing a cost-effective, future-proof networking solution, Rajant is setting new standards for reliability, efficiency, and versatility in the communications technology landscape.



Problems Solved (Benefits)

- Extend coverage past the edge of a mesh
- Single management platform for all wireless communications in the OT environment

Markets Served

- Mining
- Oil & gas
- Utilities, Solar & Wind
- Construction
- Airports

Key Features

- **Integrated Connectivity Architecture:** Integrates point-to-point and mesh networking technologies, offering a versatile solution that adapts to various communication needs.
- **Simplified Network Management:** Features an intuitive management interface that integrates seamlessly with existing IT infrastructure, facilitating easy setup, monitoring, and maintenance.
- **Dynamic Path Selection:** Employs advanced algorithms to dynamically select the most efficient data transmission paths, enhancing network reliability and performance.
- **Self-Healing Capabilities:** Automatically detects and bypasses network failures, ensuring uninterrupted communication by rerouting data through alternative paths.
- **Scalable Network Design:** Easily expands network coverage and capacity by adding nodes, without the need for extensive reconfiguration, supporting both small and large-scale deployments.
- **Enhanced Security Protocols:** Incorporates robust security measures, including encryption and authentication, to protect data integrity and privacy across both point-to-point and mesh segments.
- **Optimized for Diverse Environments:** Engineered to perform in a wide range of environments, from densely obstructed industrial sites to open, remote areas, ensuring reliable connectivity regardless of location.

Value Proposition

Enhanced Network Resilience:
• Our integrated connectivity solution leverages the strengths of both point-to-point and mesh networking, ensuring unparalleled network resilience. By dynamically selecting the optimal path for data transmission, we minimize downtime and maintain connectivity even in challenging environments.

Simplified Network Management:
• Experience simplified network management with our integrated solution. Seamlessly integrate with existing IT infrastructure while benefiting from the self-healing and self-configuring capabilities of mesh networking, reducing the need for manual intervention and simplifying network expansion.

Superior Scalability:
• Grow your network with ease. Our integrated product is designed for scalability, allowing you to expand your network by simply adding more nodes without the need for complex reconfiguration, making it ideal for both temporary and permanent network deployments.

Cost-Effective Deployment:
• Reduce deployment costs with a solution that combines the direct connectivity of point-to-point links with the flexibility of a mesh network. Our integrated approach minimizes the need for additional systems to be added, which creates less equipment and less management overhead.

Optimized Performance for Diverse Applications:
• Tailor your network to meet the demands of diverse applications, from real-time data transmission in industrial settings to providing robust connectivity in remote or mobile environments. Our integrated solution adapts to your needs, ensuring optimal performance across a wide range of use cases.

Future-Proof Networking:
• Invest in a future-proof networking solution. Our integrated product supports a wide array of communication standards and is designed to adapt to evolving technological landscapes, ensuring your network stays ahead of the curve.

Improved Coverage and Connectivity:
• Achieve comprehensive coverage and connectivity in any setting. Whether you're bridging distant points or weaving a dense network fabric, our integrated solution ensures reliable communication between devices, even in obstructed or challenging environments.

Versatile Deployment Scenarios:
• Benefit from a solution that's as versatile as your needs. Our integrated connectivity product is suitable for a myriad of deployment scenarios, including industrial automation, emergency response, temporary events, and more, providing consistent and reliable connectivity wherever it's needed.

> *"Point to point links are typically used to extend network availability over long distances where fiber optic or copper cabling solutions are either not cost effective or simply not an option requiring a physical cable which also requires poles for aerial suspension or trenching to bury the cabling."*
>
> **— Kelly Sartori**
> Sales Engineering Manager, Americas
> Rajant

Key Differentiators

Integrated Network Flexibility: The product's ability to seamlessly integrate P2P and mesh networking provides unparalleled flexibility in deployment scenarios. This integrated approach allows for robust, direct P2P connections where needed, while also offering the adaptability of mesh networks to cover areas where P2P connections might be less reliable or not feasible.

Enhanced Resilience and Reliability: Leveraging Instamesh® technology, the product ensures continuous communication even in the event of P2P link failures, automatically rerouting data through the most efficient paths. This self-healing capability minimizes downtime and maintains network performance under varying conditions, offering superior reliability compared to traditional solutions.

Cost Efficiency: By combining two networking technologies in one solution, the product potentially reduces the need for additional hardware and simplifies equipment management and troubleshooting, leading to cost savings in both deployment and operation. This efficiency can be a significant advantage over competitors that require more components and more management overhead to achieve the same level of connectivity.

Whether you're overseeing a vast industrial complex or managing critical emergency response networks, our solution adapts to your needs, offering unparalleled resilience and dynamic path selection to keep your data flowing, no matter the challenge. With easy scalability, self-healing capabilities, and robust performance, the Rajant Integrated P2P Connectivity Solution isn't just a network; it's the backbone of your mission-critical communications, designed to grow with you into the future.

Get the edge over other fault-tolerant networking options.

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

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20+ Years OF GAME-CHANGING WIRELESS

RAJANT
Intelligent Edge - Enabling Industrial AI