



# RAJANT Case Study

Radio Transceiver Modules



# Partnership

- Rajant Corporation, a broadband communications technology company that invented patented Kinetic Mesh<sup>®</sup> networking, BreadCrumb<sup>®</sup> wireless nodes, and InstaMesh<sup>®</sup> networking software, partnered with Vizmonet for the development of miniPCle and miniPCle express Radio Modules
- Vizmonet was entrusted with the design , development & Product life-cycle management of various miniPCI and miniPCie Modules



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Kinetic Mesh<sup>®</sup> networking, BreadCrumb<sup>®</sup>, and InstaMesh<sup>®</sup> are registered trademarks of Rajant Corporation



## Product Requirements



# The Design

- Vizmonet led the hardware design effort, including circuit design and packaging, while continuously incorporating Rajant's feedback from testing and validation.
- Rajant took the lead in software design and development, as well as the system integration of the ES1 hardware, software and accessories.
- Vizmonet was acting as Satellite R&D center for Rajant and managed the complete product life-cycle.
- Vizmonet team worked very closely with Rajant development team during product design, characterization and validation phases, continuously improvising the design to meet the demanding and stringent Rajant Quality requirements.
- Vizmonet team worked with regulatory Labs to get the product approved for FCC/IC/CE and other geography specific homologation.

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# The Solution

- FCC/IC/CE Approved modules offered ease of integration in Rajant BreadCrumb<sup>®</sup> devices
- Best-in-Class TX/RX performance
- Operating frequency combinations covering 900 MHz, 4.9 GHz, UNII-B1,B2A,B2C & B3 Bands
- -40 deg C to +85 deg C Operating temperature
- 24x7x365 High Availability
- FCC/IC/CE Regulatory Approvals.



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**vizmo**  
FREEDOM FROM WIRES

# End Results

- Vizmonet' Partnership adds value to OEM customers' offerings
- miniPCI & miniPCle Modules designed by Vizmonet helped to take away several man months of development cycles in Rajant product development, thereby reducing time-to-market
- The projects have helped Rajant to expand into new markets
- The projects were a huge success for Rajant and their customers
- As of now, thousands of transceiver modules have been manufactured, shipped and deployed successfully across the globe.



# Why Vizmonet?



## WIRELESS DESIGN EXPERTISE

- With over 90 years of combined Wireless product development experience and in-depth understanding of wireless eco-system
- Continuous Innovation



## ZERO-DEFECT QUALITY POLICY

- We aspire to achieve zero-defect as part of our Quality commitment.
- Continuous Process improvements by leveraging on home-grown Test, Process and Operation Automation Tools



## BRAND PROMISE

- VIZMONET as a brand helps your brand grow.
- Business well knitted with Integrity as the core Value
- Our products are complimentary to Customers and not competing in the same market space.

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# Thank you

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