



# **RAJANT Case Study**

Radio Transceiver Modules

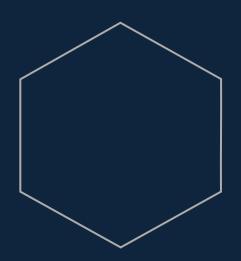


## **Partnership**

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



Case Study



### Product Requirements







## The Design

- Vizmonet led the hardware design effort, including circuit design and custom heatsink development, while continuously incorporating Rajant's feedback from testing and validation.
- Vizmonet was acting as Satellite R&D center for Rajant and managed the complete product lifecycle.
- 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.



### The Solution

- FCC/IC/CE Approved modules offered ease of integration in Rajant <u>BreadCrumb®</u> 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.













## **End Results**

- Vizmonet' Partnership adds value to OEM customers' offerings
- miniPCI & miniPCIe 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.







