

Case Study: Electronics and firmware development to enable wireless safety product launch

Project Summary

The customer approached Partner Electronics to support the development of a wireless safety monitoring product that was approaching commercial release. Although the core system architecture had already been established, additional engineering resource was required to complete the electronics and firmware development needed for a market-ready solution.

The project focused on refining the existing hardware platform, implementing product functionality, and supporting integration, testing and commissioning activities. Particular attention was given to wireless communication performance, maintaining compatibility with the existing system architecture, and meeting demanding timescales for product launch.



Project Outcome & Impact

Delivered a commercially deployable wireless product through targeted electronics and firmware development, ready for sale.

Partner Electronics completed the hardware and firmware development required to transform an established system concept into a fully functional product suitable for commercial deployment.

The solution met key wireless performance requirements while maintaining compatibility with the existing architecture, enabling efficient integration and commissioning.

The completed product successfully entered the market and has since been deployed across multiple installations, supporting the client's commercial growth and ongoing product delivery.

Key Capabilities & Tools

Embedded firmware development

Hardware design and optimisation

PCB design and layout

Wireless communication systems

Product integration and testing

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