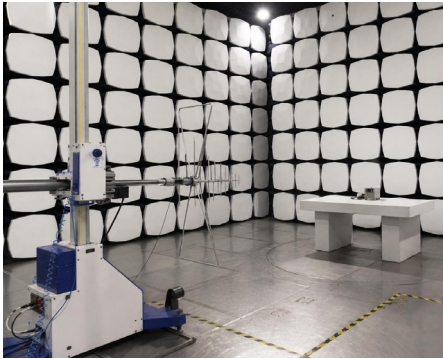


Case Study: **PCB redesign to resolve EMC compliance challenges**

Project Summary

Partner Electronics were asked to investigate and resolve electromagnetic compatibility (EMC) issues identified within an existing PCB design developed by a third party. The project required modification of the design to address compliance concerns while working within the constraints of an established product architecture.

A further challenge was that the original design files were only available in an unfamiliar PCB CAD environment, requiring rapid familiarisation with new design tools while maintaining project delivery schedules. PCB space limitations and compliance requirements added further complexity to the redesign process.



Project Outcome & Impact

Resolved identified EMC issues while preserving the existing product design.

We delivered an updated PCB design that addressed the EMC concerns identified during testing and review. The revised design was independently reviewed and approved against the original EMC findings.

The project enabled continued manufacture of the product with improved confidence in EMC performance while avoiding the cost and disruption of a complete redesign.

In addition, the work expanded internal PCB design capabilities by adopting an additional CAD platform, providing greater flexibility for future client projects.

Key Capabilities & Tools

- EMC-focused PCB redesign
- PCB layout optimisation
- Design for compliance
- Legacy design modification
- Manufacturing documentation

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