

New GaN Power Products for Avionics, Defense & Space

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The need for highly efficient power supplies is forcing the commercial industry to GaN power HEMTS and the aerospace and defense market is following closely behind. GaN technology is superior to silicon (Si) in the creation of small power systems providing more efficient power conversion. Use of GaN impacts not only the power transistor, but also overall product design and in decreasing cost around other system components including: capacitor, cooling, heat sinks, and inductors. This talk will discuss why use GaN in space and defense, a summary of qualification and radiation, and details on how it can be implemented to provide highly dense power supplies and motor controls.