

bluewind



MAVEL / ASTON MARTIN ASIL C POWERTRAIN BASED ON INFINEON AURIX™

Designed in collaboration with Mavel, this Automotive application for Aston Martin vehicles is engineered to maximize power output while minimizing waste and environmental impact. By integrating Bluewind's expertise in Functional Safety and Cybersecurity using Infineon AURIX™ technology, the application ensures unparalleled reliability and performance of the motor. It plays a pivotal role in the Automotive industry's shift towards a more sustainable future.

WHAT IS IT & HOW IT WORKS?

- It features advanced hybrid cooling capabilities, designed to optimize heat rejection.
- Its asymmetrical rotor poles are specifically engineered to optimize both HNV and overall efficiency.
- It adheres to Functional Safety and Cybersecurity standards, including ISO 26262 (ASIL C and ASIL D) and ISO 21634.
- With a peak power output of 150 kW and a maximum rotational speed of 19,000 rpm, it delivers outstanding performance tailored for high performance automotive applications.



BLUEWIND VALUE

Bluewind offers development tools and embedded software solutions for Infineon AURIX™ microcontrollers (MC-ISAR, Hitex SafeTpack TC3xx). The services include Functional Safety design and testing, as well as Cybersecurity system design and implementation.



SAFETY & SECURITY

Compliance to safety and security standards.



CONTROL FUNCTIONS

4D eMotor control maps & temperature estimation



ENHANCED SUSTAINABILITY

Minimal environmental impact.



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