Ettiksoft

Talent Innovation Solution

Modular Electronic Control Unit

Robust, automotive-grade ECU hardware designed for integration with customer or third-party software stacks. Each unit is built to automotive qualification standards with scalable compute capability and industry-standard communication interfaces.

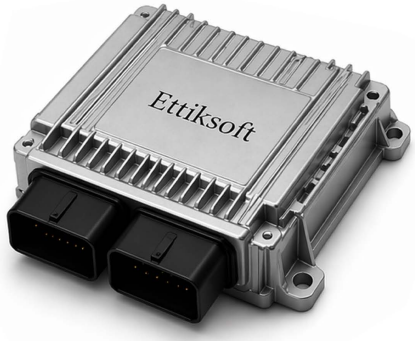
Body Control Module (BCM)

Product Code: ETK-BCM-100

Central controller for vehicle body electronics including lighting, wipers, central locking, window control, and interior comfort features.

Vehicle Control Unit (VCU)

Product Code: ETK-VCU-200



High-performance domain controller for electric and hybrid vehicles, coordinating powertrain, energy management, and vehicle-level functions.

VCU and BCM can be merged as a single box solution

KEY FEATURES

- Multiple LIN, CAN-FD and I/O interfaces
- Integrated high-side and low-side drivers
- Diagnostic support (UDS on CAN)
- Automotive grade AEC-Q100 components
- Compact, thermally optimised enclosure
- Multi-core 32-bit automotive microcontroller
- Optional Ethernet, and FlexRay interfaces
- ISO 26262 ASIL-C/D ready hardware architecture
- Secure boot and HSM support
- Over-the-air update ready

APPLICATIONS

- EV Passenger car
- EV Two-wheeler
- EV Commercial Vehicle
- EV Heavy Machinery

High Performance Compute (HPC)

Product Code: ETK-HPC-300

Centralised high-performance computing platform for software-defined vehicles, supporting ADAS, infotainment, and zonal architectures.

KEY FEATURES

- Multi-core SoC with GPU/NPU acceleration
- Automotive Ethernet (100/1000BASE-T1)
- Support for Adaptive AUTOSAR and Linux
- Hardware-accelerated cyber security
- Scalable across vehicle segments

APPLICATIONS

- ADAS
- Autonomous Driving
- Central Computers
- Zonal ECUs

Anti-lock Braking System (ABS)

Product Code: ETK-ABS-400

Safety-critical ECU hardware for anti-lock braking and vehicle stability systems with redundant architecture.

KEY FEATURES

- High Friction Stop - $S \le 0.0063V^2$ or $MFDD \ge 6.17\ m/s^2$
- Low Friction Stop - $S \le 0.0056V^2/P$ or $MFDD \ge 6.87 \times P\ m/s^2$
- Regen Coordination
- ASIL-C hardware capability
- Compliant with IS 14664

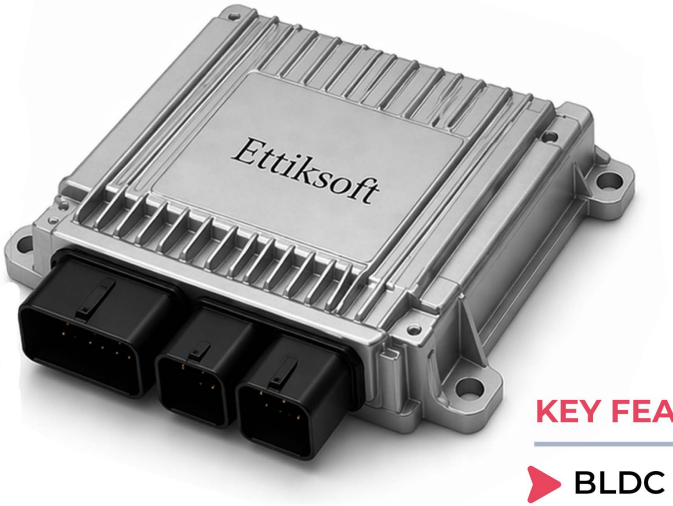
APPLICATIONS

- Two-wheelers

Power Steering ECU

Product Code: ETK-EPS-500

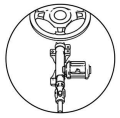
Electric Power Steering controller hardware delivering precise torque control and smooth steering feel across operating conditions.



KEY FEATURES

- BLDC Motor Control by FOC- Torque Control
- Functional Safety : ASIL-D
- CAN / CAN-FD communication

APPLICATIONS



column-assist steering systems

ENGINEERED FOR RELIABILITY

Designed with automotive-grade components and processes for long-term durabillty.

SAFETY READY

Hardware platforms aligned to functional safety standards (ISO 26262).

FUTURE READY

Cyber Security Compliant

INTEGRATION FRIENDLY

Standard interfaces and mechanical packages for faster development and integration.

"Engineered for Trust. Used Worldwide."

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Software

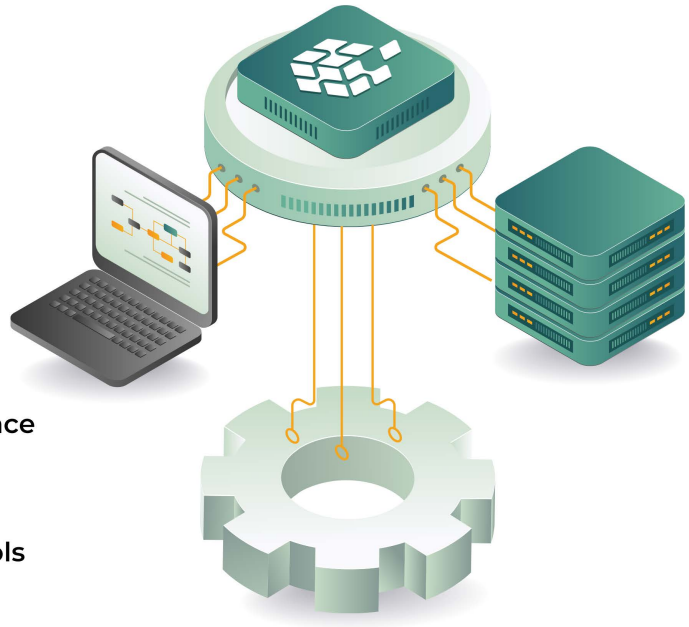
Modular, standards-compliant embedded software stacks

Ready-to-integrate software components developed to automotive industry standards. Each stack is delivered with full documentation, integration support, and can be ported to customer-specific target hardware.

Classic AUTOSAR BSW

Product Code: ETK-SW-ASR-CL

Complete Classic AUTOSAR Basic Software stack compliant with the latest AUTOSAR release, covering MCAL through to RTE integration.

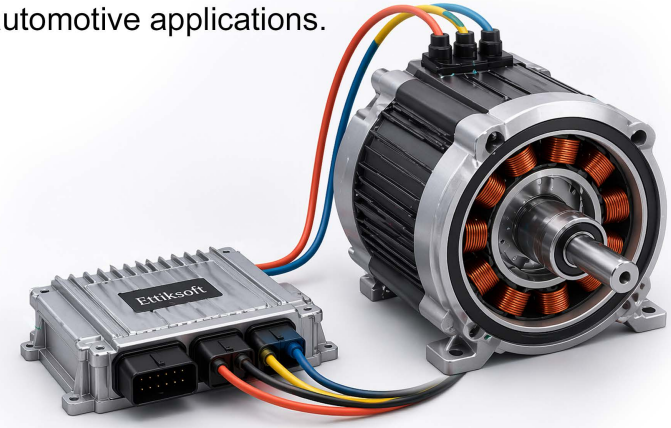


- AUTOSAR 4.2 Complaint
- Scalable across communication Interface
- Low cost per project
- Configurable via industry-standard tools
- Scalable across 16/32-bit MCUs

FOC Software for BLDC Motor

Product Code: ETK-SW-FOC-01

Field-Oriented Control software library for high-efficiency, low-noise control of BLDC and PMSM motors used in automotive applications.



KEY FEATURES

- Sensored and sensorless FOC variants
- Space-vector PWM modulation
- Calibratable current and speed loops
- Optimised for automotive MCUs
- Integration with AUTOSAR or bare-metal

APPLICATIONS

- EV Commercial vehicles
- EV Two-wheelers
- Power tools