

COMPACT

Corner Module: the first scalable chassis unit that fits into a standard passenger car

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Frankfurt, Germany, September 8, 2025. AUMOVIO will be presenting an advanced version of its Corner Module at IAA Mobility 2025 in Munich, Germany. The highly integrated solution combines the motor, brake system, steering and suspension in a compact, modular unit. This next evolutionary stage of the Corner Module is based on the Drive Brake Unit (DBU), which is being developed in close collaboration with the Munich-based start-up DeepDrive. The system has been designed so that it can be integrated into today's vehicle architectures without any major changes.

The basis is a scalable drive-brake unit that integrates the motor and brake on the wheel. This maximizes drive efficiency, reduces installation space, and creates new freedom in vehicle design. With individual 150-degree steering for each wheel, the Corner Module enables new functions such as "turn-on-the-spot," pivot turns, diagonal driving or parallel maneuvering ("crab movement"), thus opening up new possibilities in vehicle dynamics.

With its by-wire architecture, the Corner Module is ready for Software-defined Vehicles and supports future over-the-air optimizations. Its highly compact design eliminates the need for traditional transmission components, reducing weight and creating valuable installation space. The plug & go architecture simplifies and speeds up installation and servicing, as processes such as filling and bleeding hydraulic fluid are no longer necessary.

Features at a glance:

- **Precision & Dynamics:** Comfortable, wheel-specific torque control via the wheel hub motor for high driving stability, adaptive air suspension system with direct CAirS connection, and state-of-the-art sensor technology such as wheel speed sensors, chassis position sensors, and Bluetooth-based tire pressure monitoring systems.
- **Efficiency & Integration:** Integrated control functions for drive and chassis take up less space
- **Future-proof:** Fully by-wire-based, OTA-capable, and thus perfectly prepared for Software-defined Vehicles and future functional adjustments

Pictures/captions



AUMOVIO Corner Module: Compact by-wire chassis unit that fits in a passenger car

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