SDrive

Drive-by-wire Automated driving system

WE DRIVE YOUR VEHICLE. EVERYWHERE.

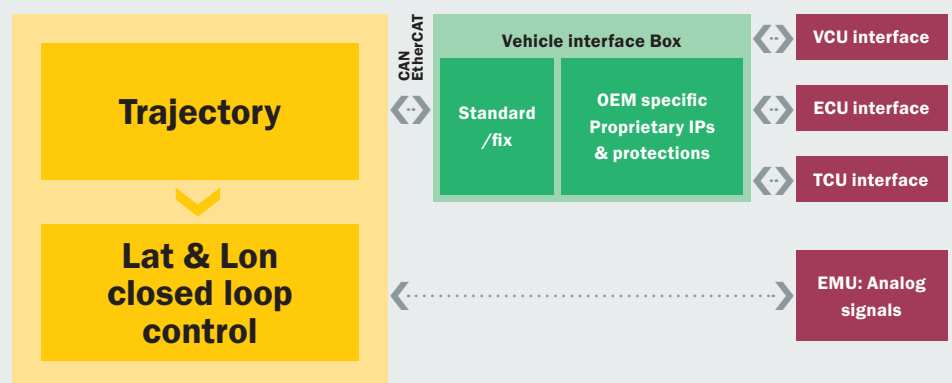*For computer controlled driving of cars with drive-by-wire on proving grounds and test tracks*

- The **SDrive** system turns any drive-by-wire vehicle into an automated path-following vehicle. In combination with our emergency brake actuator, driverless operation is secured.

- The controller system is based on the controller of the SfpHybrid robot system and includes all the necessary interfaces and I/Os – but without axis controllers.

- The **SDrive** allows to integrate drive-by-wire vehicles into automated fleets and integration into open scenario fleets using the available interfaces.

- The system can be integrated into wireless ESTOP systems for additional safety.

SDrive System (with closed loop)

CAN EtherCAT

Trajectory

Lat & Lon closed loop control

Vehicle interface Box

Standard /fix	OEM specific Proprietary IPs & protections

VCU interface

ECU interface

TCU interface

EMU: Analog signals

PRECISE | RELIABLE | EFFICIENT

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IMU interfaces:	GeneSys outdoor GeneSys indoor iMAR OxTS	DAQ interfaces:	CAN EtherCAT TCP/IP
Fleet automation integration:	AK (TCP/IP) ISO 22133 (TCP/IP & UDP VMM/ISO (TCP/IP & UDP)	Vehicle interfaces:	CAN EtherCAT customized but proprietary STÄHLE protocol

The conversion, authorization and communication to the vehicle VCU/ECU/TCU devices must be provided by the customer through a special and dedicated Vehicle interface Box.

Our complementary recommendation for unmanned testing: Emergency-Stop Brake System

Art. No.: P-A1864

▶ Pneumatically operated emergency brake actuator

▶ Shortest set-up times (2-3 minutes)

▶ Installation in the driver's foot area

▶ Stable and secure attachment to the seat rail of the vehicle using a patented seat rail adapter