

Chassis & Safety

KPIT is a trusted technology partner in chassis & passive safety delivering end to end system development that includes software, hardware, electronics & mechanical components for highly safety critical applications.

We enable the automotive eco system to tailor chassis & safety systems to various markets with our deep expertise in Automotive Technologies.



ELECTRIC
POWER ASSIST
STEERING



MOTORIZED
SEAT BELT
CONTROLLER



DEPLOYABLE
SPOILER



TERRAIN
RESPONSE
SYSTEM



ACTIVE
ROLL
STABILIZATION



AIR
BAG
CONTROL



AIR SUSPENSION &
ELECTRONIC DAMPER
CONTROL



BRAKING SYSTEM
SOLUTIONS
(ABS, ESC, RSC, EPB)



20+ Production Programs with KPIT solutions

Compliant to
ISO 26262

10+ OEMs & Tier1s rely on KPIT Chassis & Safety Expertise

Your end-to-end partner for Chassis & Safety Solutions

Our Offerings for Chassis & Safety

Area	Offering		Horizontal Offerings across all Areas		
			Specifications Development	ISO 26262 Compliance	Model Based Development
EPAS, Deployable Spoiler	System Development	<ul style="list-style-type: none"> • Software • Electronics Hardware • Mechanical sub systems 	Specifications Development	ISO 26262 Compliance	Model Based Development
Braking (ABS, EPB, ESC), Suspension & Damping, Roll Stability	Feature Development	<ul style="list-style-type: none"> • New functionality development • Feature ownership 			
KPIT Integrated Chassis Platform	Multifunctional ECU software	Re-architecture of multiple applications & diagnostics features enabling single ECU			
Seat Belt, Airbag control	Algorithm Development	Algorithm development for Passive safety Applications			
ACC, AEB, Parking Assist, ESC	Vehicle Level Integration	Vehicle Level Integration with Active and Passive systems			

Example of Complete Product Development: Electric Power Assisted Steering (EPAS)

EPAS as a Product:	Services for EPAS:	Benefits of KPITs EPAS solution:
<ul style="list-style-type: none"> • We offer Complete EPAS System 	<ul style="list-style-type: none"> • EPAS Software, Hardware, System Development • Mathematical Modeling & Simulation Modeling • Calibration & Testing (Software, EOL, Vehicle) • Feature Enhancement & Maintenance of software 	<ul style="list-style-type: none"> • Finer Torque Control • Faster Time to Market • Scalable Configuration

Technical Expertise



ABS: Antilock Braking System, **ESC:** Electronics Stability Control, **ACC:** Adaptive Cruise Control, **AEB:** Autonomous Emergency Braking, **EPB:** Electronic Parking Brake, **RSC:** Roll Stability Control, **EOL:** End Of Life

Solutions across Automotive Sub-systems



Autosar



Body Electronics



Engineering Design



Functional Safety



Infotainment



Instrument Cluster



Powertrain



Vehicle Diagnostics

For more information • email: chassis@kpit.com • website: www.kpit.com

About KPIT

KPIT, a product engineering and global IT consulting partner, is focused on co-innovating domain intensive technology solutions for corporations specializing in automotive & transportation, manufacturing and energy & utilities. A leader in technology solutions and services, KPIT currently partners with 180+ global corporations including Original Equipment Manufacturers (OEMs), semiconductor companies and Tier 1 companies.

