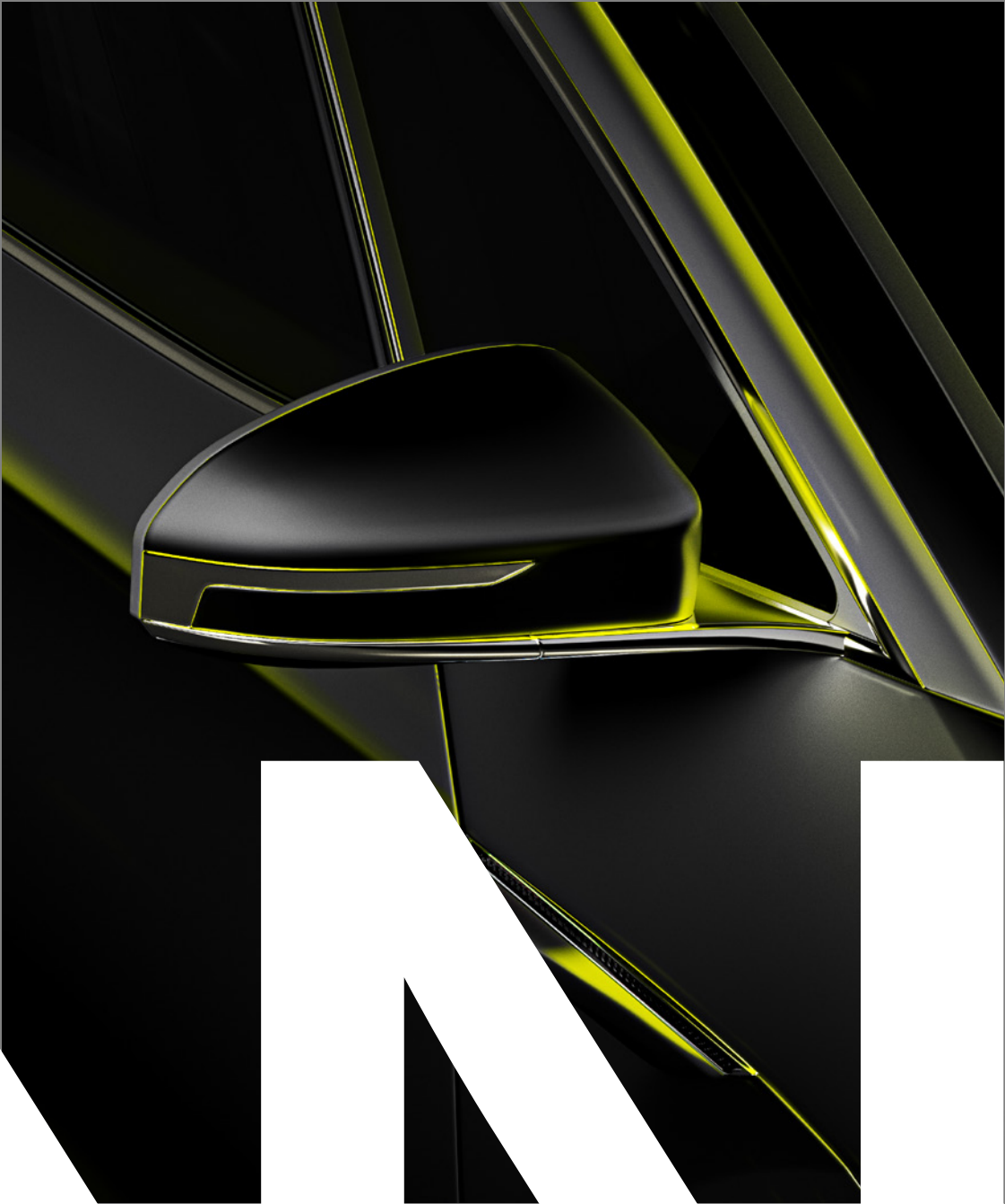


SIGNAL
INTERCONNECT
DESIGN SOLUTIONS

ENNOVI™

ENNOVI.COM

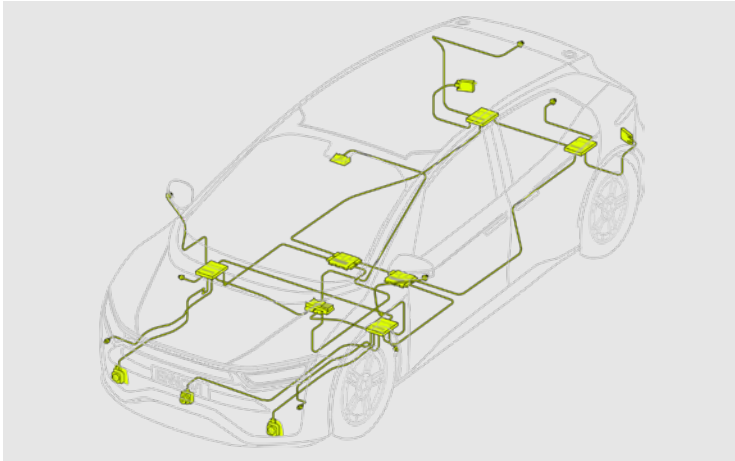


ENNOVI

Our interconnect solutions help EV makers manage the signal density and communications challenges due to the proliferation of sensors, actuators, controllers and other real-time functions for drivetrains, steering, braking, safety, and driver-assist systems.

- + Cost-effective integration of sensors and in-vehicle networking
- + Support for high signal-density and low-latency data flows
- + Vertically integrated stampings and molded modules
- + Custom design collaboration from inception through production

Sensor



CHALLENGES

- + Sensing the constantly changing environment and identifying potential hazards accurately in real-time remains a challenge.
- + Complex onboard sensor networks need high-speed interfaces with robust dielectric materials and packaging.

OUR PRODUCTS

- + Automotive Ethernet Connector, ENNOVI-Net
- + Radar Interconnect
- + LiDAR Interconnect

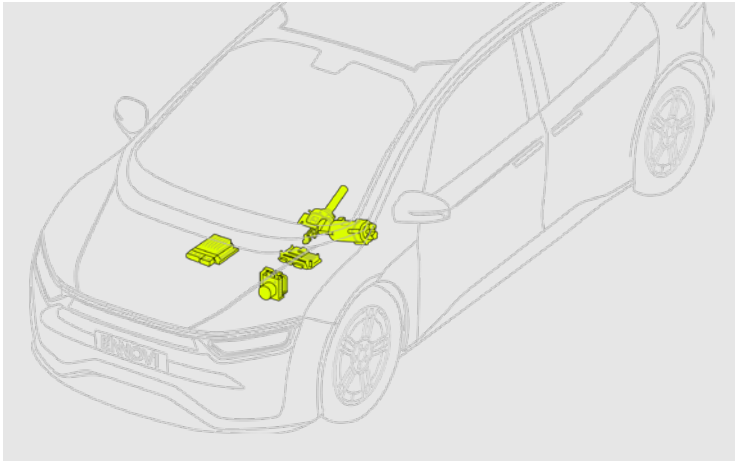
SOLUTIONS

- + Our core enabling technologies provide a wide range of solutions, delivering reliable and repeatable connections within robust packaging.

BENEFITS

- + We enable complex, robust, and reliable RADAR, LiDAR, and camera sensors.
- + Our vertically integrated capabilities and global footprint ensure fast turnaround and short time-to-market.

Controller



CHALLENGES

- + As the number and types of sensors increase, the sheer amount of data that must be meshed together and analyzed in real-time becomes a challenge.
- + Modern ECUs require faster speed communications while retaining signal integrity in compact packaging.

OUR PRODUCTS

- + Automotive Ethernet Connector, ENNOVI-Net
- + High-Pin-Count Solutions

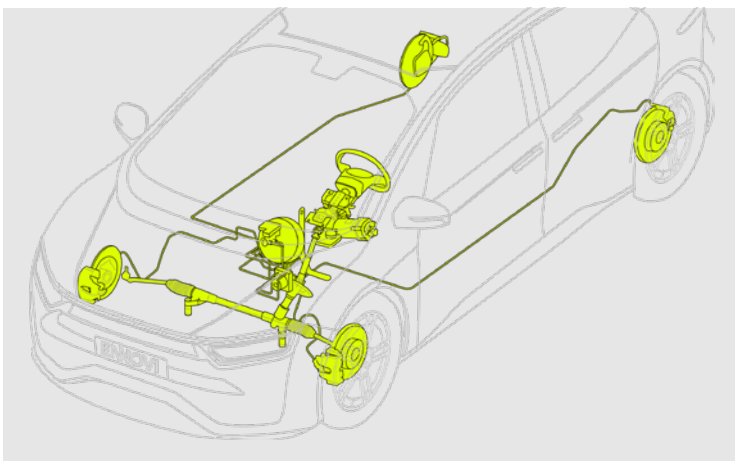
SOLUTIONS

- + We provide a range of solutions for higher speed signaling, dense pin-counts, and small footprint while delivering robust, reliable, and repeatable connections.

BENEFITS

- + We enable compact Electronic Control Units (ECUs) that support reliable high-speed transmission.
- + Our vertically integrated capabilities and global footprint ensure fast turnaround and short time-to-market.

Steering & Braking



CHALLENGES

- + Safety and compactness remain the top concerns in developing steering and braking systems.

OUR PRODUCTS

- + Multi-Row Board-to-Board Connector
- + LV Connector

SOLUTIONS

- + Our solutions for high-density board-to-board connection deliver reliable connections in a highly configurable and compact form factor.





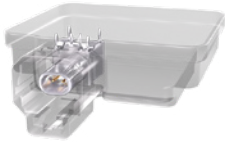

BENEFITS

- + Enhanced design flexibility in the development of steering and braking systems.
- + Our vertically integrated capabilities and global footprint ensure fast turnaround and short time-to-market.

Applications & Capabilities

ENNOVI signal interconnects, ECU connector solutions and Press-Fits are configurable and customizable across the entire electric drive control system.

The table below provides a quick reference regarding applications for the various ENNOVI offerings.

PRODUCTS	RADAR INTERCONNECT →	LIDAR INTERCONNECT	HIGH-PIN-COUNT HEADER →	INTEGRATED HIGH-PIN-COUNT CONNECTOR →
IMAGES				
APPLICATIONS	Sensor	Sensor	Electronic Control Unit	Electronic Control Unit
CAPABILITIES	Precision Stamping Insert Molding Plating PVD Coating Membrane Welding Dispensing Air Leakage Testing Automation Assembly	Precision Stamping Insert Molding Plating PVD Coating Membrane Welding Dispensing Air Leakage Testing Automation Assembly	Precision Stamping Molding Plating Stitching Automation Assembly	Precision Stamping Insert Molding Plating Ultrasonic Welding Laser Marking Automation Assembly
PRODUCTS	AUTOMOTIVE ETHERNET CONNECTOR →	MULTI-ROW BOARD-TO-BOARD CONNECTOR →		
IMAGES				
APPLICATIONS	Electronic Control Unit Sensors	Steering & Braking		
CAPABILITIES	Precision Stamping Molding Plating Automation Assembly	Precision Stamping Insert Molding Plating Modular Snap-in Design Automation Assembly		

Our custom interconnects

Our advanced and proven interconnect technologies enable us to create game-changing technologies and customized products built anywhere in the world.

Optimize signal density to ensure reliable communication and deliver robust performance in complex electronic systems.



TECHNOLOGIES

PRESS-FIT →

SOLDER BEARING LEAD TECHNOLOGY →

IDC TECHNOLOGY →

IMAGES



APPLICATIONS

Direct insert terminals for zone controller.
Custom connectors for sensors, ECUs, board-to-board and wire-to-board connections.
Custom molded modules and power lead frames.

Interconnect and assembly in hybrid circuits, sub-assembly stacks, control units, sensors, shield assemblies, lead frames, PCBs and flex circuits.

Winding assemblies and magnet wire connection in electric motors, generators, transformers and other power applications.

Need a custom solution?

CONTACT US



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