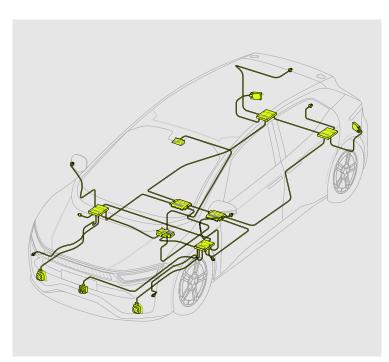


Our interconnect solutions help EV makers manage the signal density and communications challenges due to the proliferation of sensors, actuators, controllers and other real-time functions for drivetrains, steering, braking, safety, and driver-assist systems.

- + 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**



#### SOLUTIONS

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

+ Automotive Ethernet Connector,

**OUR PRODUCTS** 

+ Radar Interconnect

+ LiDAR Interconnect

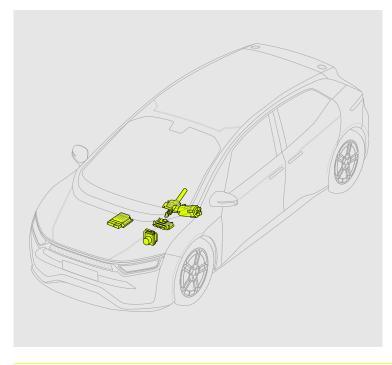
**ENNOVI-Net** 

- + 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 timeto-market.



## Controller



#### **CHALLENGES**



#### **SOLUTIONS**

- + 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**

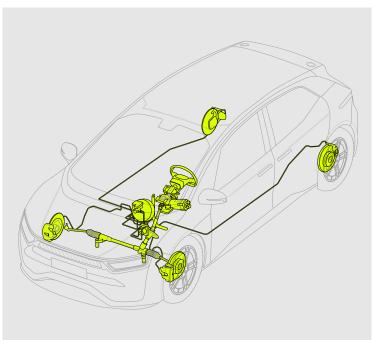
- + High-Pin-Count Header
- + Integrated Connector Housing
- + Automotive Ethernet Connector, **ENNOVI-Net**

+ 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**



#### **SOLUTIONS**

- + Safety and compactness remain the top concerns in developing steering and braking systems.
- + Our solutions for high-density boardto-board connection deliver reliable connection in a highly configurable and compact form factor.



#### **BENEFITS**

#### **OUR PRODUCTS**

+ Multi-Row Board-to-**Board Connector** 

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

PRODU	JCTS

#### RADAR INTERCONNECT

#### LIDAR INTERCONNECT

#### HIGH-PIN-COUNT **HEADER**

#### **INTEGRATED CONNECTOR HOUSING**

#### **IMAGES**









**APPLICATIONS** 

**CAPABILITIES** 

**Precision Stamping** Insert Molding Plating PVD Coating Membrane Welding Dispensing Air Leakage Testing Automation Assembly

Sensor Precision Stamping

Insert Molding Plating PVD Coating Membrane Welding Dispensing Air Leakage Testing Automation Assembly Electronic Control Unit

Precision Stamping Molding Plating Stitching Automation Assembly Electronic Control Unit

**Precision Stamping** Insert Molding Plating Ultrasonic Welding Laser Marking Automation Assembly

**PRODUCTS** 

### **AUTOMOTIVE ETHERNET**

#### CONNECTOR

#### MULTI-ROW BOARD-TO-**BOARD CONNECTOR**

#### PRESS-FIT

**IMAGES** 







**APPLICATIONS** 

Electronic Control Unit

Steering & Braking

Electronic Control Unit Steering & Braking

**CAPABILITIES** 

**Precision Stamping** Molding Plating Automation Assembly

Precision Stamping Insert Molding Plating Modular Snap-in Design

Automation Assembly

**Precision Stamping** 

Plating

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