



MOBILITY

Interplex

ADVANCED MOBILITY

BROCHURE



SENSOR INTERCONNECT | ELECTRONIC CONTROL UNIT SOLUTION | STANDARD CONNECTOR



MOBILITY



SENSE

As the mobility revolution progresses through advanced driver assistance systems (ADAS) and evolves toward fully autonomous driving systems (ADS), **on-board electronics are becoming more sophisticated, interconnected and crucial for safe vehicle operation.**



THINK

Much like living organisms, advanced mobility systems need to **Sense the surrounding environment**, to **Think in order to make the best decisions**, and to **Act in real time** for avoiding hazards and achieving desired results.



ACT

At Interplex, we have helped automotive OEMs and Tier 1s **design and manufacture new electronics systems**, establishing a trusted leadership role for enabling ADAS and ADS driving applications.

Using a holistic end-to-end design approach, we partner with our customers to **optimize performance, functionality, and time-to-market** while reducing product cost and the Total Cost of Ownership.



SENSE



ADVANCED MOBILITY



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 SOLUTIONS



Radar Interconnect



LiDAR Interconnect

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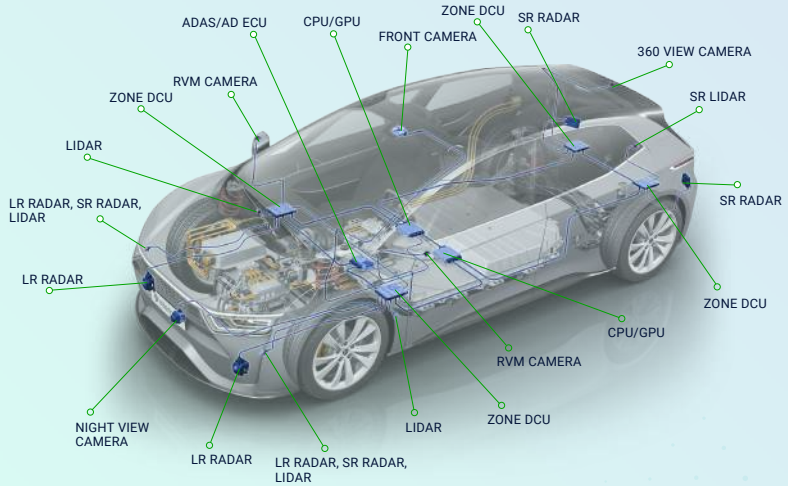
SOLUTIONS

- > 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**.



THINK



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 SOLUTIONS



High-Pin-Count Header

[LEARN MORE](#)



IPX-Net Automotive Ethernet Connector



Integrated Connector Housing



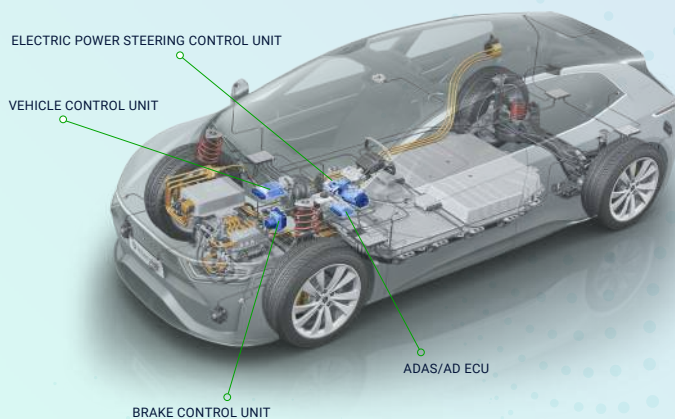
SOLUTIONS

- > Our solutions for **higher speed signaling, dense pin-counts, and small footprint** deliver **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**.





CHALLENGES

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



SOLUTIONS

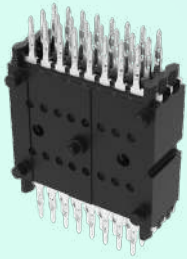
- > Our solutions for high-density board-to-board connection deliver **reliable connection in a highly configurable and compact** form factor.



BENEFITS

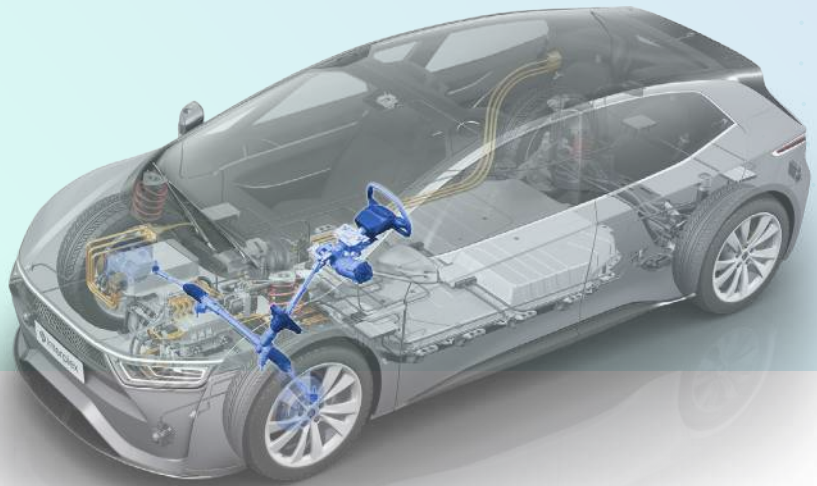
- > **Enhanced design flexibility** in the development of steering and braking systems.
- > Our vertically-integrated capabilities and global footprint ensure **fast turnaround and short time-to-market**.

OUR SOLUTIONS



Multi-Row Board-to-Board Connector

[LEARN MORE](#)



APPLICATIONS

Interplex sensor interconnects, ECU connector solutions and connectors are fully customizable across the entire Sense, Think, Act ecosystem for advanced mobility applications. The table below provides a quick reference regarding applications for the various Interplex offerings.

SOLUTIONS	RADAR INTERCONNECT	LIDAR INTERCONNECT	HIGH-PIN-COUNT HEADER	INTEGRATED CONNECTOR HOUSING	MULTI-ROW BOARD-TO-BOARD CONNECTOR	IPX-NET AUTOMOTIVE ETHERNET CONNECTOR
IMAGE						
APPLICATIONS	SENSE	SENSE	THINK	THINK	ACT	ACT

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BE PART OF THE MOBILITY REVOLUTION

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