

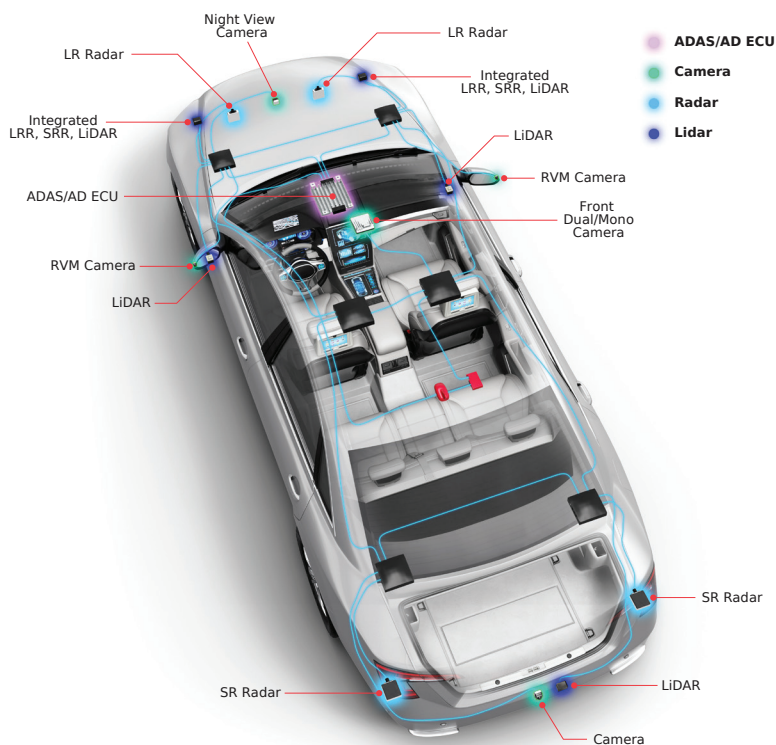


## Board-to-Board Connectors: **SlimStack Board-to-Board Connectors, Floating FSB3 and FSB5 Series** Supporting Miniaturization in ADAS Applications

**Molex recognizes the growing impact of safety and driver assistance systems and the new generation of self-driving cars. In other words, the intelligent vehicles of the future are here. As a leading supplier of advanced micro connectors, Molex supports tier customers in the development of advanced driver assistance systems (ADAS) that increase transportation and road safety.**

We are addressing increased demand for flexible and reliable connections that can be robotically assembled by providing board-to-board solutions made of robust materials and are easy to mate due to exceptionally wide floating ranges.

SlimStack Board-to-Board Connectors, Floating FSB3 and FSB5 Series, provide wide floating ranges, flexible mating heights and one of the smallest sizes in its category. The intelligent design allows robotic assembly and meets small space requirements, which is critical to achieve miniaturization in cameras, radars and LiDARs.



### KEY CAPABILITIES

- Meets automotive temperature requirements: up to 125°C
- Supports 6 Gbps data rates
- Flexible spring terminal design
- Blind-mating
- Tested according to USCAR-2 and LV214 (selected circuit size)

### KEY ADVANTAGES

- Up to  $\pm 0.50\text{mm}$  floating range in X, Y and Z directions allows design flexibility
- Smallest floating B-to-B in 0.40mm-pitch category
- Available with vacuum pick-up area and grip for automated installation

### MARKETS

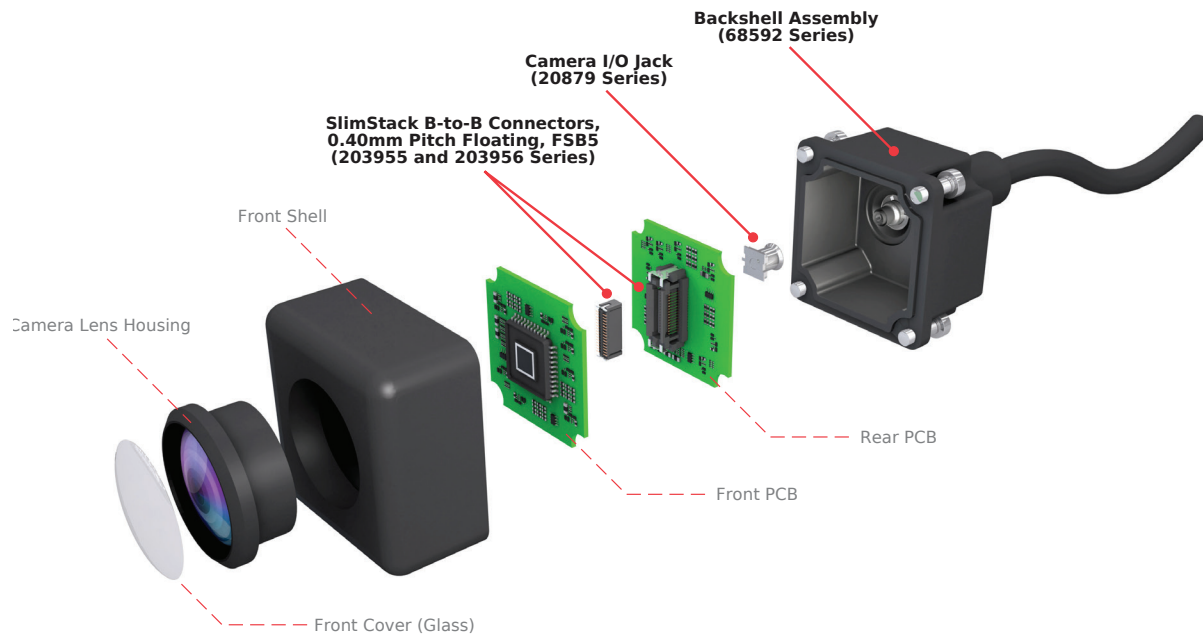
Connected and automated vehicles

### KEY APPLICATIONS

- Advanced driver assistance system
  - Camera
  - Radar
  - LiDAR
- Digital cockpit and in-vehicle infotainment
  - Digital cluster
  - Central information display
  - Head up display
  - Driver monitoring system
  - Digital rear view system

# Board-to-Board Connectors: SlimStack Board-to-Board Connectors, Floating FSB3 and FSB5 Series Supporting ADAS Applications

## Example: Car Camera



Series	Part Number		Pitch (mm)	Height (mm)	Floating Range	Current	Voltage	Circuit size	Operating Temperature	Plating	Durability
	Receptacle	Plug									
FSB5	203955-0**3	203956-0**3	0.40	5.00	0.50mm (X, Y, Z direction)	0.3A (Max.)	40V (Max.)	20 to 60	-40 to +125°C	Gold	30 Cycles
FSB3	204927-0**1	204928-0**1		3.00	0.30mm (X, Y, Z direction)		50V (Max.)				

Replace \*\* with circuit size

### COMPLETE SOLUTIONS TO ACHIEVE YOUR VISION

Our capabilities are constantly evolving to meet the demanding requirements for autonomous driving, infotainment and connectivity.



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