

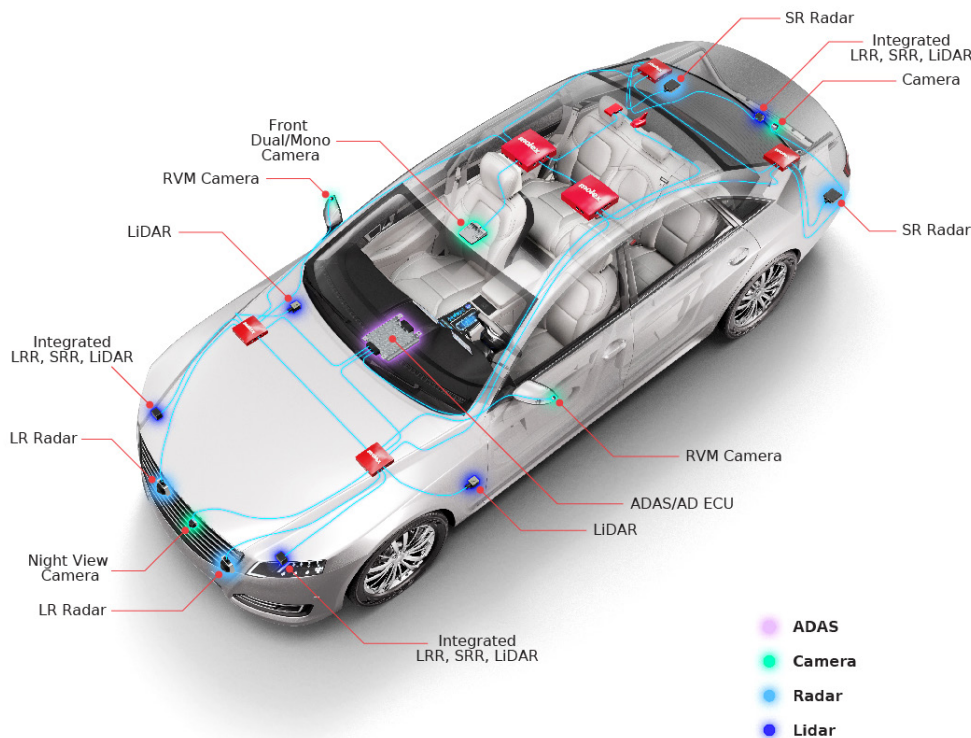


ADAS Car Camera Module Solutions for Seamless Connectivity

Molex is a leading supplier of high-speed interconnect solutions supporting tier customers in the development of in-vehicle advanced driver assistance system (ADAS) capabilities that are secure and reliable and provide high bandwidth. In support of the increased demand for car camera modules with high-speed video processing, we have provided a camera I/O backshell with coaxial bullet and jack interconnections.

The robust camera backshell system is sealed and delivers data rates up to 3 Gbps, supporting high-speed media protocols. It also includes a FAKRA interface to meet increasing bandwidth needs for ADAS camera devices. Having been instrumental in developing the camera I/O backshell solution for ADAS applications, Molex continues to address the evolving requirements of high-speed video transmission for the intelligent vehicles of the future.

Car Camera Backshell I/O Solution



KEY INTERFACES

- FAKRA interface mates with FAKRA cable assembly
- SMB bullet interface mates with SMB jack

KEY CAPABILITIES

- FAKRA interface
- Frequencies up to 3 GHz
- Plastic and metal backshells
- EMI protection with PVD coating
- IPX7 and IPX9k rated

KEY ADVANTAGES

- **System solution offering:** connectors, housing, assembly, FAKRA cable
- **Waterproof guarantee:** IPX7 and IPX9K
- **Easy to assemble:** surface mount jack

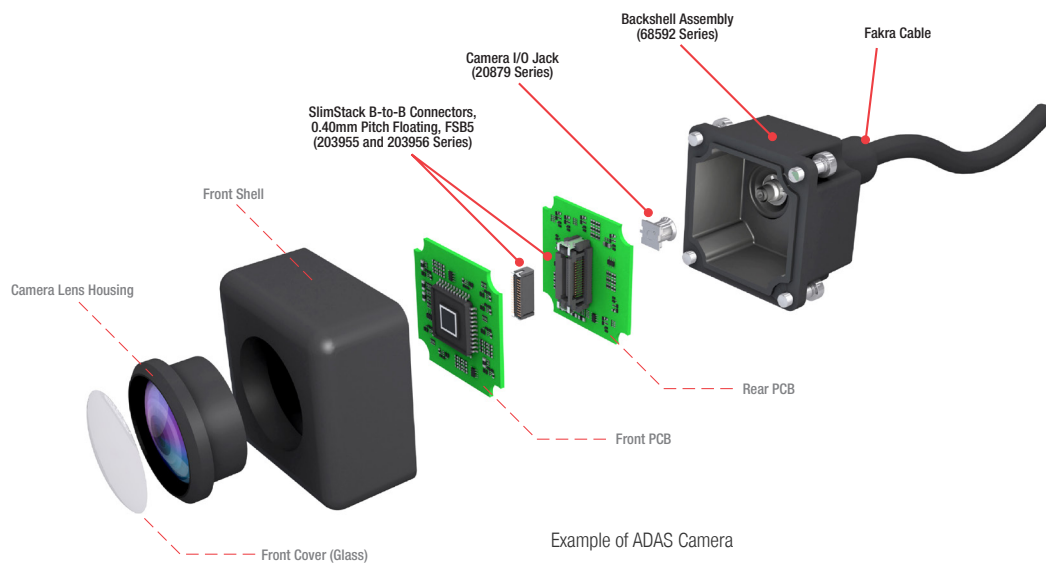
MARKETS

- Connected Vehicles
- Advanced Driver Assistant Systems (ADAS)

KEY APPLICATIONS

- Surround-view cameras
- Rearview cameras
- Blind-spot detection
- Driver-monitoring systems

ADAS Car Camera Module Solutions for Seamless Connectivity



Product	Camera Backshell Housing Assembly	Camera I/O Bullet	Camera I/O Jack
Part Number	68592-XXXX	20879-3XXX	20879-XXXX
Operation Frequency	3 GHz		
Rated Current	1.0A		
Circuit Size	SMB Coaxial Connector		
Mate With	Mate with FAKRA Cable	Mate with Jack on PCB	Mate with Backshell Bullet
Mount Style	Assemble with Camera Front Shell	Sealed in Backshell	SMT
Orientation	Vertical		
Packaging	Tray	Tape and Reel	Tape and Reel
Operating Temperature	-40 to +105°C		
Main Applications	ADAS 360-Degree Vision Camera, Rear Mirror Camera, Driving Monitor Camera		
IP Rating	IP69 With Mating Waterproof FAKRA Cable	IP67	IP67
Tested Acc.	Molex Internal Product Specification		



Camera Backshell Housing Assembly



Camera I/O Bullet



Camera I/O Jack

COMPLETE SOLUTIONS TO ACHIEVE YOUR VISION

Molex makes a connected world possible by enabling technology that transforms the future and improves lives.



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