

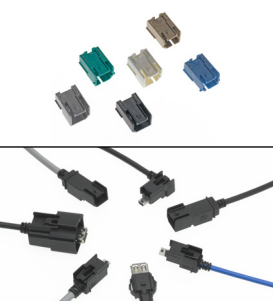
Automotive Networking Connectivity Solution

Product Portfolio


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As a leading supplier of high-speed networking solutions, Molex is supporting OEMs in the development of in-vehicle networks that are secure, prioritized, reliable and high bandwidth. Building upon its strength in cables, connectors, media modules and signal integrity innovations, Molex is addressing the increased demand for in-vehicle processing power.

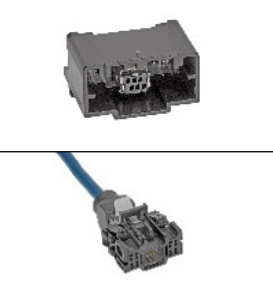
HSAUTOLINK I

	Speed	Protocol	Cable type	Description	Application
	2 Gbps	Up to 100 Base, USB 2.0	UTP, STP	Rugged assembly with positive latching and assembly guide rails provides a proven interface offering durability	Connected vehicle services, Diagnostics/ Data upload, Infotainment, Navigation, Telematics, Camera, Display, Controller.
				Preassembled housing and industry standard header with multiple keying options, meets all USB 2.0 electrical and EMI shielding requirements and is USCAR-30 compliant	
				USCAR-30 compliant ensures products are qualified and market tested to stand up to the rigorous in-vehicle environment	
				Full-length cable shielding provides superior signal performance and reduced Electro-Magnetic Interference (EMI)	

HSAUTOLINK II

	Speed	Protocol	Cable type	Description	Application
	13 Gbps	Up to 1000 Base, USB 2.0/USB 3.0, DisplayPort, FTP	UTP, STP, TwinAx	Manufactured from high-temperature plastic material that is compatible with lead-free through-hole reflow process (Pin-in-Paste) or lead-free selective wave soldering process	Camera sensor based, Camera, Controller, Diagnostics/Data upload, Infotainment, Navigation, Telematics, ADAS.
				Rear (soldering) side of right-angle headers features closed shield case providing robustness and guarantees signal integrity delivering high EMI protection	
				Compact, low-profile optimizing device-side space savings to meet future needs for increasing high-speed communication links uses proven Molex LFH (Low Force Helix)	
				Flexible, expandable product family with data rates up to 13 Gbps allowing for combined links and supporting multiple protocols in the same connector (USB 2.0, USB 3.0, LVDS, Ethernet AVB, HDMI*, MicroCross DVI, DisplayPort†, etc.)	
				Compatible with shielded twisted-pair (STP) or jacketed unshielded twisted pair (JUTP) cable construction which is a cost-competitive solution for high-speed differential signaling applications providing construction flexibility	
				Fully protected perimeter seals and wire seals ensuring system is rated to IP67 and IP69K for use in harsh environments and wet locations	

HSAUTOLINK II HYBRID



	Speed	Protocol	Cable type	Description	Application
	6 Gbps	Up to 1000 Base	UTP, STP, TwinAx	Ideal for mixed low speed, high speed and power applications, supporting infotainment systems, telematics and camera devices.	Camera sensor based, Camera, Controller, Diagnostics/Data upload, Infotainment, Navigation, Telematics, ADAS.

Automotive Networking Connectivity Solution

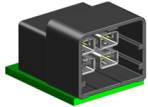

Product Portfolio

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High-Speed Fakra Mini

	Speed	Protocol	Cable type	Description	Application
	20 Gbps	Up to MultiGig Ethernet	Coax	The High-Speed FAKRA Mini (HFM) Coaxial Cable Solution delivers 20 Gbps of data speed for the connected vehicle, supporting any modern radar, camera, lidar or sensor applications.	Instrument cluster, ADAS, Modules, Camera, Antenna, GPS, Gateway/Switch, 4K displays, Infotainment, Internet, Navigation, NextGen wireless LAN, Sensors, Surround view.
					

HSAutoGig

	Speed	Protocol	Cable type	Description	Application
	20 Gbps+	Up to MultiGig Ethernet	STP, TwinAx	HSAutoGig's small-form-factor headers reduce its demand for valuable PCB space for customers. HSAutoGig cables provide customers a scalable high-speed networking solution for multi-gig Ethernet applications.	Instrument cluster, ADAS, Modules, Camera, Antenna, GPS, Gateway/Switch, 4K displays, Infotainment, Internet, Navigation, NextGen wireless LAN, Sensors, Surround view. Buses, Trucks, Taxi, Self driving.
				The HSAutoGig high-speed Ethernet solution delivers 20 Gb+ data speeds and a reliable interface to connect smart-sensor systems and Ethernet network platform in support of the drive toward greater vehicle autonomy.	

USB ILLUMINATED

	Speed	Protocol	Cable type	Description	Application
	480 Mbps	USB 2.0	STP	Delivers USB 2.0 data requirements in an illuminated interface for easy mating in all lighting conditions.	Infotainment, Navigation, Media modules
	480+ Mbps	USB 2.0/USB 3.0	STP, TwinAx	Custom colors are available and may be formulated to meet most requests. Max. and min. luminosity may also be customized	

Automotive Networking Connectivity Solution

Product Portfolio

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Markets

Automotive

Commercial vehicles

Farm equipment

Motorcycles

All-terrain vehicles

Watercraft

Aircraft

Applications

Infotainment

Telematic devices

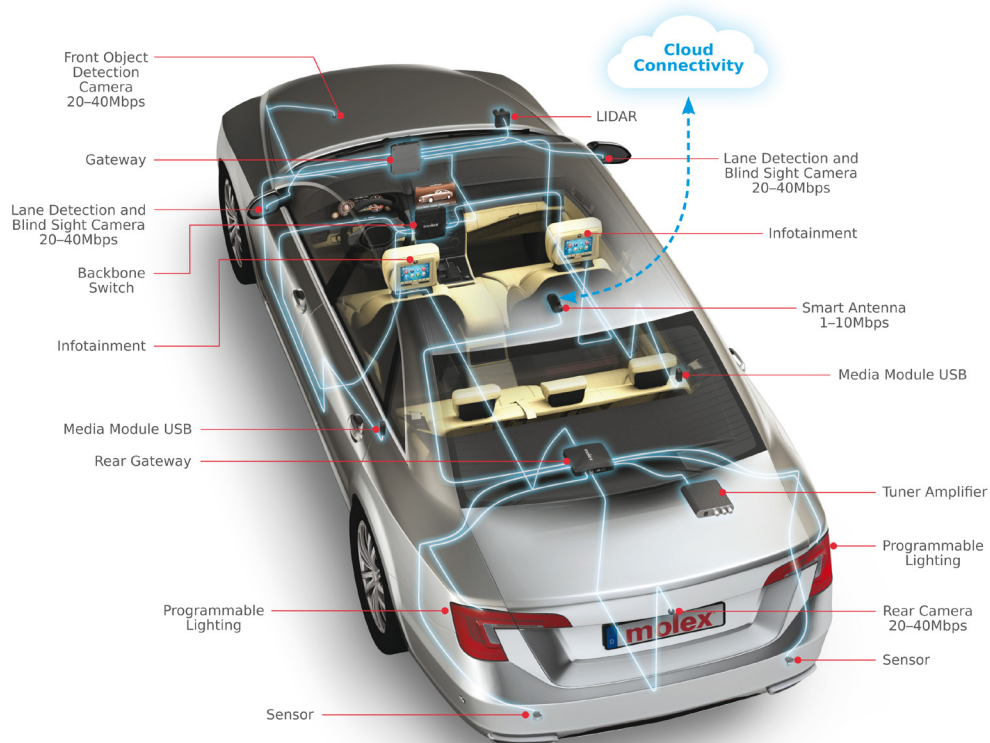
Safety and collision avoidance cameras

In-Vehicle applications

Navigation systems

Connected vehicle services

Advanced Driver Assistance System (ADAS)



www.molex.com/connected-mobility