

# DriveAngle Floating Board-to-Board Connectors ➤

Supporting 60.0A power delivery and PCIe Gen4 data speeds, DriveAngle Floating Board-to-Board Connectors offer a unique combination of compact, right-angle, board-to-board connectivity and high-performance capabilities, specifically designed to ensure robust performance in space-constrained environments. Their LV214 compliance, wide floating range and compatibility with automated assembly systems help reduce mating errors and increase manufacturing efficiency, making them an ideal solution for next-generation vehicle electronics.

## ADVANTAGES AND FEATURES

### Supports 16Gbps data rate in a compact footprint

The capability of the connectors to handle very high-speed data transmission within a small form factor helps prevent performance bottlenecks and potential system failures.

### Provides significant space savings

The hybrid design of these connectors reduces the overall connector size compared to separate power and signal connectors.

### Offers excellent levitation ability

The floating range allows the connectors to accommodate slight misalignments and variations during assembly. This flexibility helps overcome challenges posed by harsh environmental conditions such as vibration, thermal expansion and mechanical stress.

Current	Signal: 0.3A/pin Power: 15.0A/pair
Number of Circuits	60 to 150
Transmission Speed	16Gbps
Pitch	0.50mm
Operating Temperatures	-40 to +125°C

### Offers high-current capacity of 60.0A

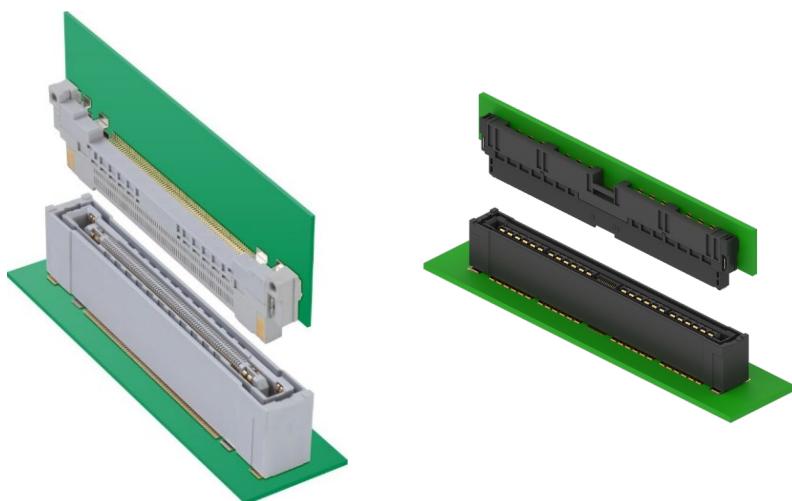
The connectors provide the highest current transmission capability available on the market, ensuring reliable power delivery without overheating or experiencing performance degradation.

### Meets rigorous European automotive standards

The connectors meet LV214 standard, ensuring they can withstand harsh environmental conditions such as extreme temperatures, vibration, humidity and chemical exposure.

### Provides design flexibility

The high pin count of the connectors along with the small footprint enables engineers to increase functionality without sacrificing board space.



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## MARKETS AND APPLICATIONS

### Automotive

Advanced driver and passenger infotainment systems  
 Advanced driver-assistance systems  
 Advanced high-speed communication gateways  
 Central computing systems  
 Domain control units for autonomous systems  
 Software-defined vehicles



*Advanced Driver and Passenger Infotainment Systems*

### Industrial Automation

Controller boxes  
 Servo drives  
 Stepping motor controllers



*Servo Drives*

## TARGET SPECIFICATIONS

### Reference Information

Packaging: Tape and Reel  
 RoHS: Yes  
 Halogen Free: Yes  
 Glow Wire Capable: Yes

### Electrical

Rated Voltage/Current (per Pin):  
 High-Speed Right Angle —  
     Signal Pins: 50V/0.3A  
     Power Pins: 200V/5.0A  
 High-Current Right Angle —  
     Signal Pins: 50V/0.3A  
     Power Pins: 200V/15.0A  
 Transmission Speed: 16Gbps  
 Focus SI Protocol: PCIe Gen 4

### Mechanical

Pitch: 0.50mm (signal)  
 Circuit Size:  
     High-Speed Right Angle — 60 to 150 pins (signal)  
     High-Current Right Angle — 24 pins  
 Floating (X, Y and Z): +/-0.80mm in X and Y,  
     +/-0.60mm in Z  
 Alignment: +/-1.30mm

### Physical

Focus Automotive Standard: LV214  
 Operating Temperatures: -40 to +125°C