

stAK50h Unsealed Connection System

molex

Leveraging industry-approved terminal design, the stAK50h Connection System incorporates through-hole style unsealed headers and connectors to support the most stringent global automotive OEM requirements for body electronics, safety, infotainment and a variety of transportation applications



stAK50h Header and Cable Assembly with Wire-Dress Cover

Features and Benefits

Multiple terminals for design flexibility

Support a wide range from low-current signal (5.0A) to high-current power (30.0A) applications

Compliant to USCAR-2 and global

Automotive OEM standards. Enables faster time-to-market

Standard USCAR color-coded housings

Support visual polarization. Expedite assembly of connector systems



12-Circuit Header

12-Circuit Receptacle

32-Circuit Receptacle

28-Circuit Receptacle

PCB-alignment posts for mating headers

Ensure proper terminal alignment via-holes of the PCB during assembly. Provide robust PCB retention

Stackable and modular header design

Eliminates costly custom tooling, engineering and validation time needed for multi-bay configurations

Connector Position Assurance (CPA) latching feature

Prevents accidental disengagement of male and female connectors when mated

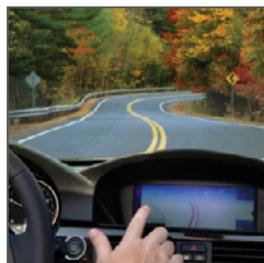
Applications

Automotive

- Comfort, Infotainment and Driver Assist
- Body Electronics
- Safety/Chassis
- In-Vehicle Networking

Commercial Vehicles

- Interior Electronic Modules
- Body Electronic Modules



Car Navigation Systems



Power Seat Modules



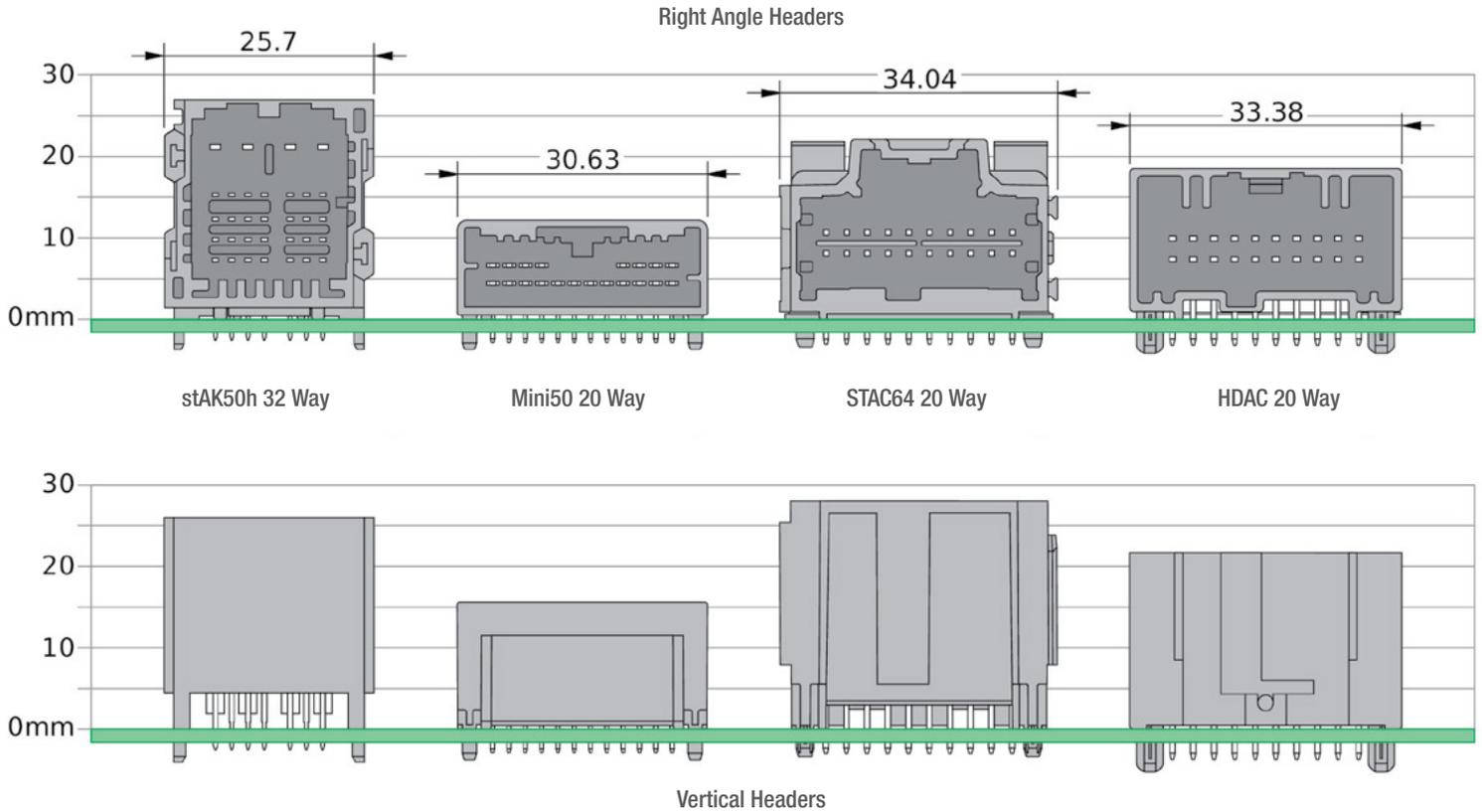
Car Infotainment System

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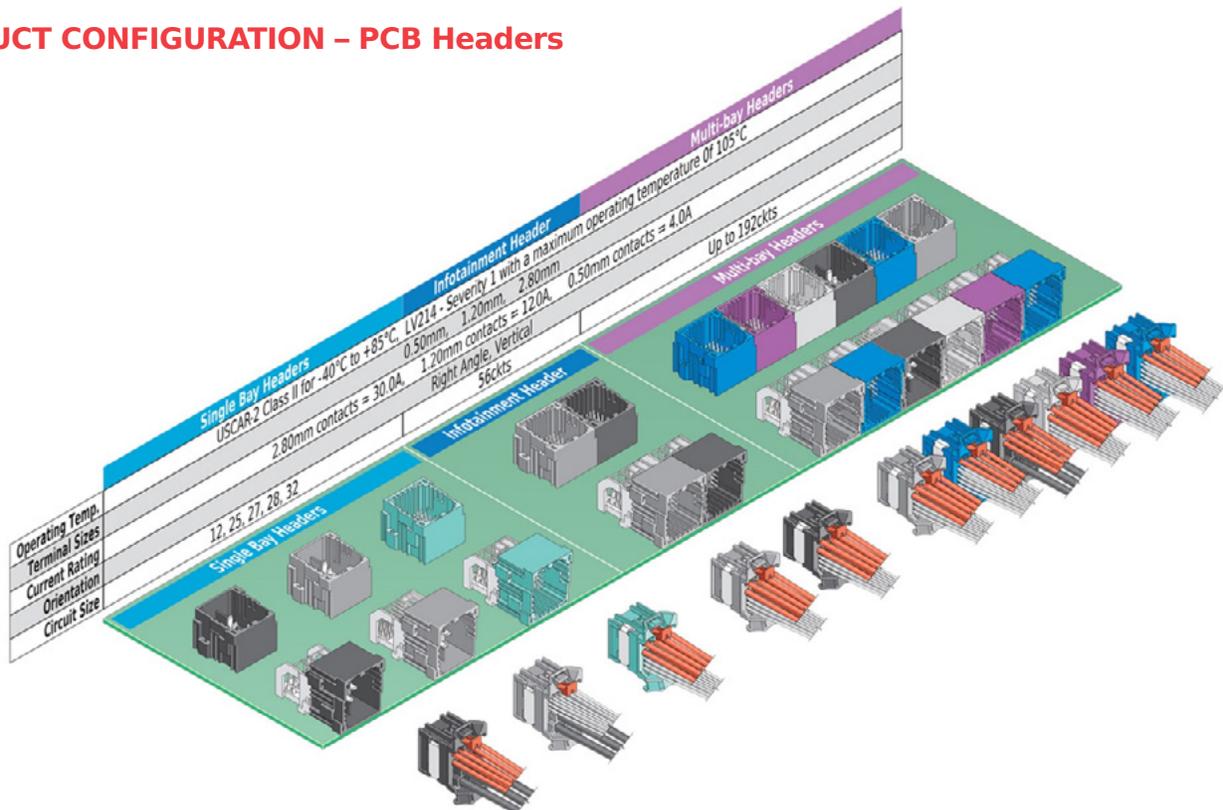


Size Comparison Charts

0.50mm, 1.20mm and 2.80mm terminals are developed to support wide range of applications ranging from low-current signal (5.0A) to high-current power (30.0A) applications.



PRODUCT CONFIGURATION - PCB Headers



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Specifications

REFERENCE INFORMATION

Configuration: Wire-to-Board
Mates With: TAK50 terminals
Terminal Used: 0.50mm, 1.20mm, 2.80mm
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: No
USCAR-2 Compliant: Yes
GMW3191 Compliant: Yes

ELECTRICAL

Current (max.): 5.0A for 0.50mm contacts
12.0A for 1.20mm contacts
30.0A for 2.80mm contacts

PHYSICAL

Pitch: 2.00mm min, 3.50mm max
Gauge: 10 to 26 AWG
Housing: USCAR color-coded
Contact: 0.50mm, 1.20mm, 2.80mm
Operating Temperature: -40 to +85°C

Ordering Information

Order No.	Description	Orientation	Packaging	Operating temperature
200501	Hybrid Header	Vertical	Tube	-40 to +85°C
200502	Hybrid Header	Right-Angle		
200505	Stacked Hybrid Header	Vertical		
200506	Stacked Hybrid Header	Right-Angle		
160013	Infotainment Hybrid Header	N/A	Bulk	
160014	28-Circuit Receptacles			
160026	12-Circuit Receptacles			
160027	25-Circuit Receptacles			
160028	32-Circuit Receptacles			
160029	27-Circuit Receptacles			
160030	Wire Dress Cover for 12, 25, 27, 28 and 32-Circuit Hybrid Receptacles		Bag	

www.molex.com/link/stak50h.html

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