

Stac64 Overview and Extensions



Stac64

Modular USCAR Header
Interface

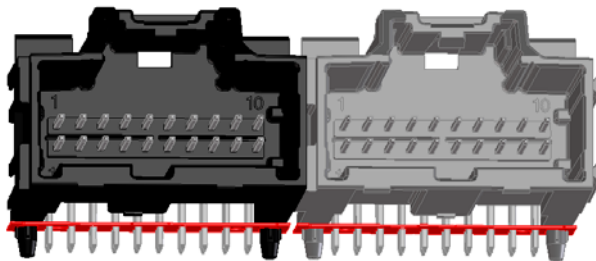


80ckt right angle interface

Stac64 Overview



- **Modular unsealed header system**
 - Right angle or vertical
- **Stackable system designed for in-cab power and signal applications**
- **Faster time to market vs. molded header systems**
- **System Options**
 - .64mm & 1.5mm terminals – 2.8mm in progress
 - 8 to 20 circuit
 - Signal and Hybrid pockets available
 - Up to 30 amps per pin
 - USCAR Class II rated



80ckt right angle interface

Applications



**Class II
Applications**



***Stac64
Supports
All***

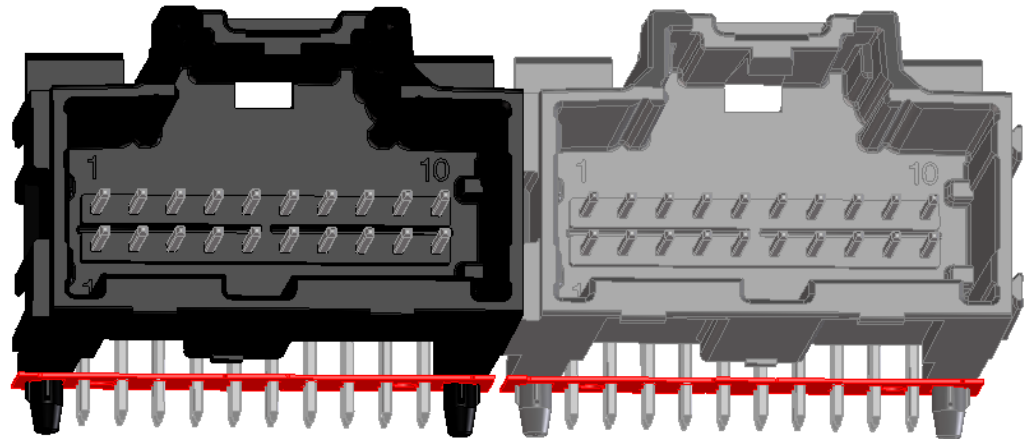
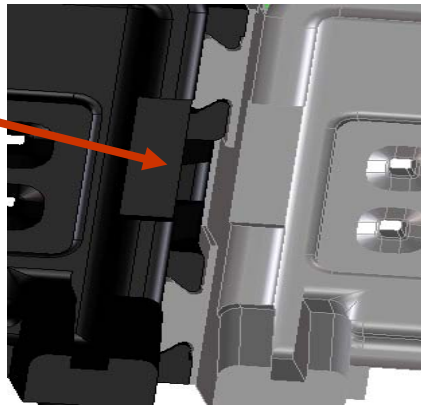


Universal Stacking Feature

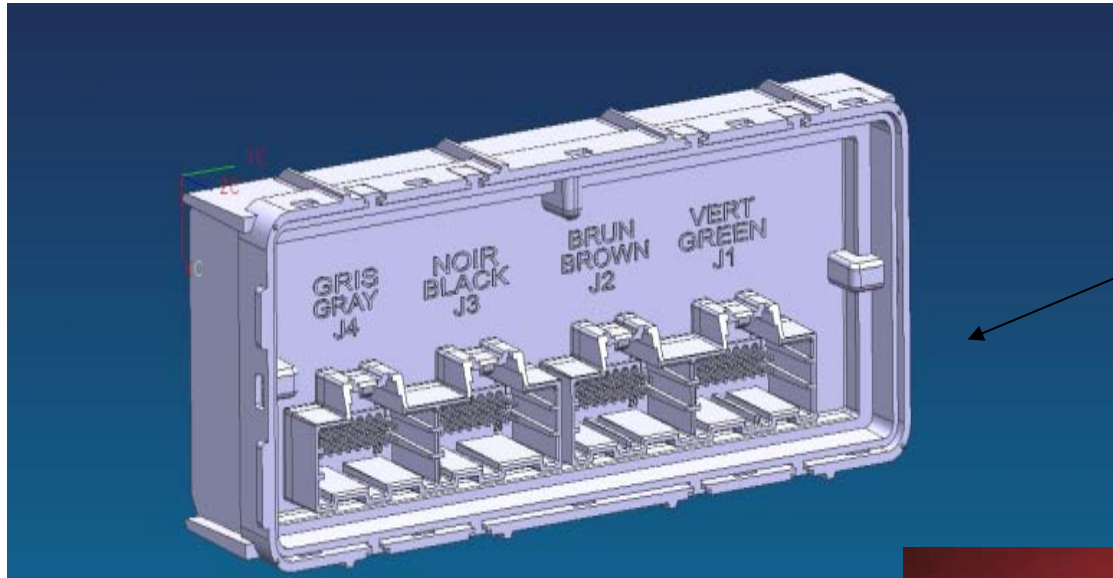
■ Positive lock buried between header assemblies

- *Protection during transit*
- *Rigid for easy PCB installation*

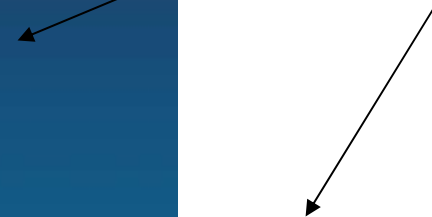
Connector lock is buried



Stac64 Competition



Molded in Pockets

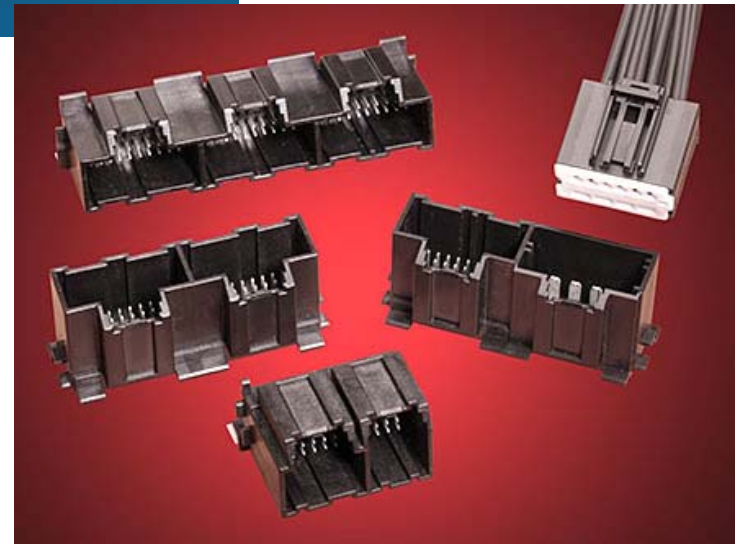


Difficult mold construction / True Position issues

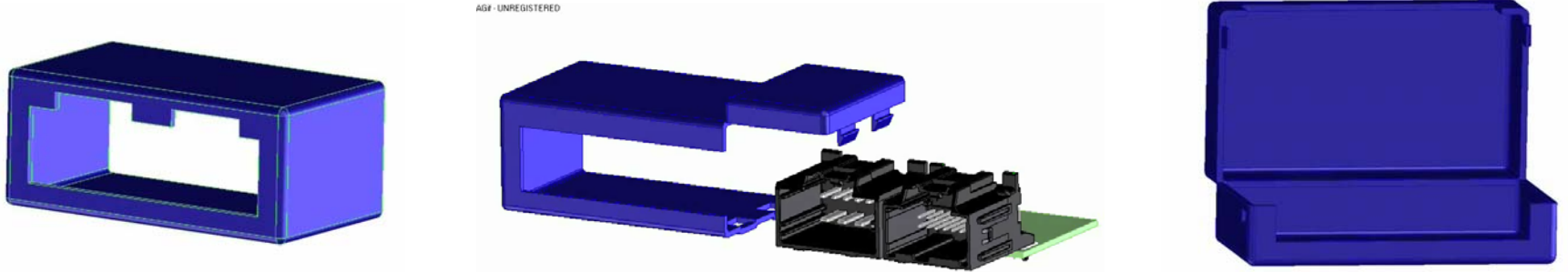
Loss of visual polarization scheme

Cost of change is significant (time and money)

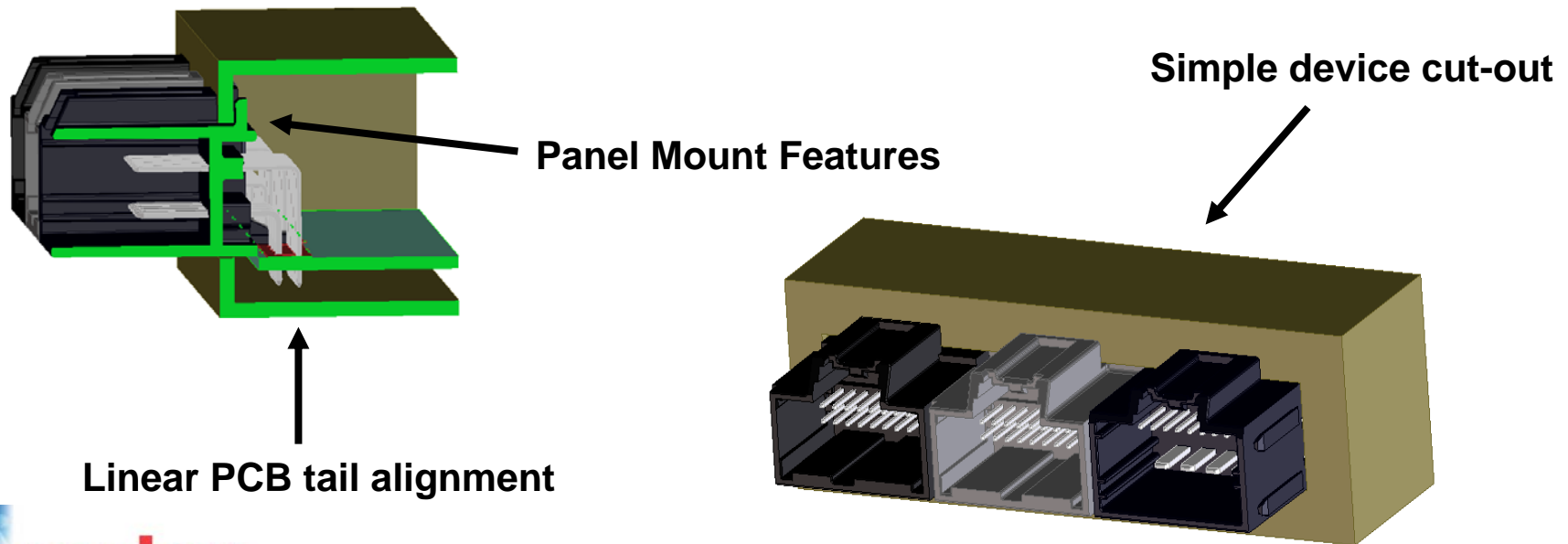
Long time to market and qualification



Packaging Strategies



Reduced Packaging Complexity



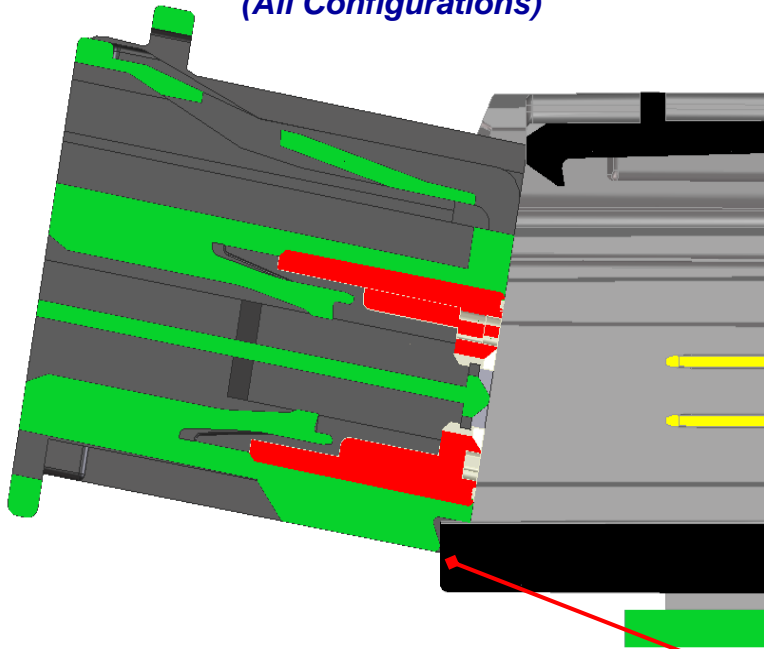
Connector Design Improvements



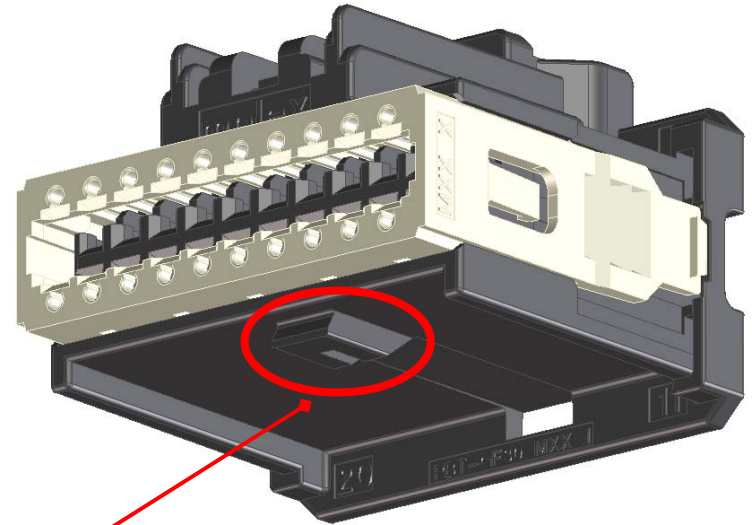
■ Connector Polarization Features

- *New design increases polarization forces above 200 N limit*

*> 200 N Polarization Feature Effectiveness Force
(All Configurations)*



Polarization Feature Modification



*Feature forces rotation
upon improper mating*