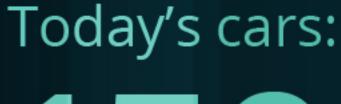
Achieving Zonal Architecture: Connections are Key to the Cars of the Future

THE ELECTRONIC BOOM IN **AUTO MANUFACTURING**



electronic control units and growing

Leads to more demand on cable harnesses

- Most complex component Produced manually
 - Higher failures and costs

ARCHITECTURAL EVOLUTION

THE FUTURE DEMANDS

TODAY: NEXT 5 YEARS:

Bespoke, duplication of wiring

Flat



grouped by function

Domain

Structures

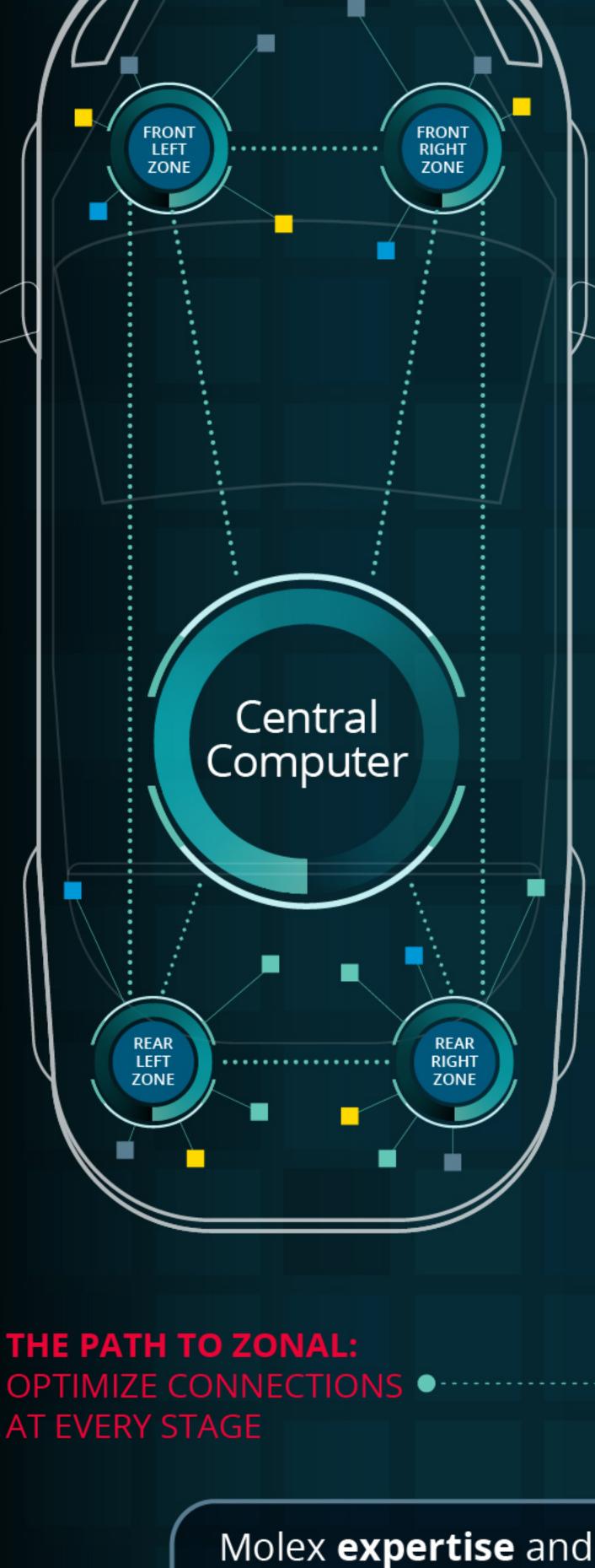


THE OF THE FUTURE

ARCHITECTURE Device-specific zones are connected

ZONAL

Zone <-> Central Computer <-> Controller/Gateway



complex high-speed networking cable

Challenges to

Inter-zonal

shorter, less

communication

travels through a

Consumer performance expectations

Implementation:

· Rain, wind, heat, dirt

and vibration

 Safety/regulatory concerns Need for optimized

electrical connection

- **Design Benefits:** Minimizes wiring

Connected

Simplified

Lighter

Modular

 Standardized Adaptable

capabilites can help:



Tier 1 OEM

supplier

expertise

Power/

signal

connectors



High-speed

data

networking

Automation

for robot

assembly

MX-DaSH

The Molex Data Signal Hybrid

Optimize the connection interfaces for central compute clusters, zonal modules, and I/O aggregators

Learn more and connect with our

automotive architecture experts at molex.com/zonal-architecture



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