



# AUTOMOTIVE SOLUTIONS

INTERCONNECTS + DESIGN CAPABILITIES



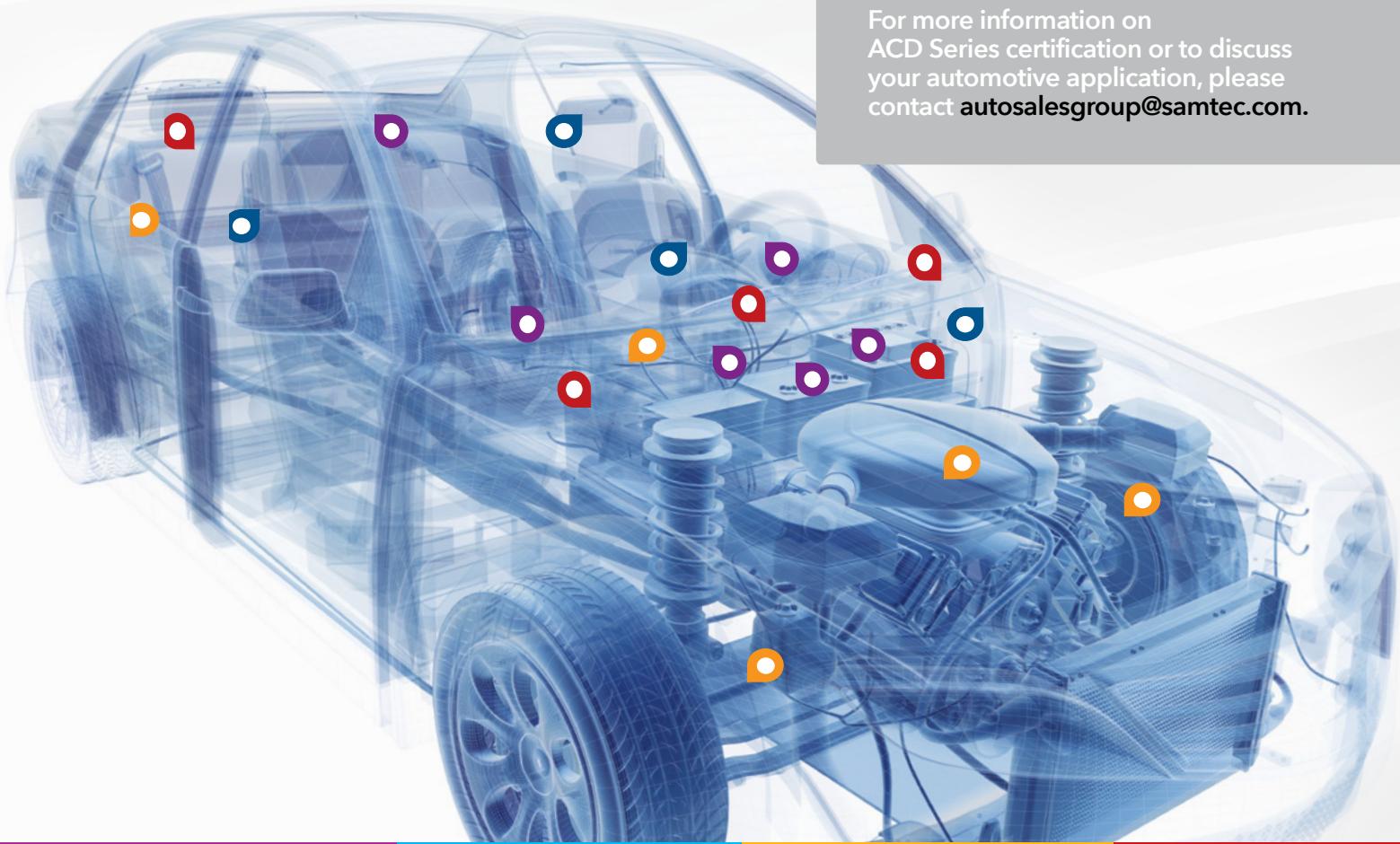
# PRODUCTS AND EXPERTISE

Samtec earned its ISO/TS 16949 certification in 2006 and has assembled a team of experts and systems designed specifically to support the unique requirements of automotive applications requiring interconnect solutions. Samtec's automotive scope includes:

- Design and manufacturing of electronic connectors marketed as "ACD Series" (Automotive Certified Designs) for PCBs
- ACD Series connectors are IMDS registered (International Material Data System)
- A wide range of products suitable for prototype and test equipment applications

With global manufacturing facilities, an extensive line of proven interconnect solutions, and full custom product development capabilities, Samtec is well positioned to support the interconnect needs of your automotive applications.

For more information on ACD Series certification or to discuss your automotive application, please contact [autosalesgroup@samtec.com](mailto:autosalesgroup@samtec.com).



## DIS/AUDIO (Driver Information Systems)



## INTERIOR



## CONTROL MODULES



## SAFETY



- GPS
- Satellite Radio
- Entertainment Systems
- Navigation, Tracking
- Radar Controlled Cruise Control
- Heads-up Display System

- Power Windows and Seats
- Sunroof, Moonroof Controls
- Day/Night Mirrors
- Interior Lighting
- Night Vision System
- Climate Control

- Instrument Panel and Cockpit
- Steering Modules
- Brake Modules
- Engine Control Systems
- Power Door Locks
- Automatic Transmission (Tiptronic)

- Warning Sensors
- Emergency Communication
- Anti-theft Systems
- Safety Trunk Release
- Hands Free Systems
- Airbag Release Systems

# CERTIFICATIONS

Samtec is TS 16949, ISO 14001, and ISO 9001 certified, and is fully integrated with in-house tooling, plating, and automated manufacturing capabilities for advanced development, low-cost, quick-turn, and high volume production.

In addition, Samtec is compliant with International Traffic and Arms Regulations (ITAR), and with EU WEEE and RoHS directives.



Please visit [samtec.com/quality](http://samtec.com/quality) for additional information.

## EXPERIENCE SUDDEN SERVICE®

Samtec's Sudden Service® provides unmatched global service, free access to data and industry leading tools, along with engineering support, to help you design, develop, test and deliver the best solution for any complex application.

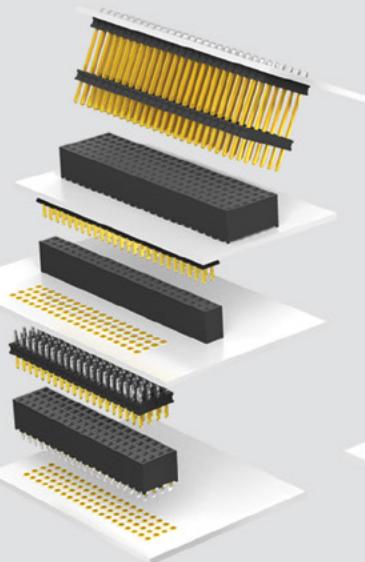
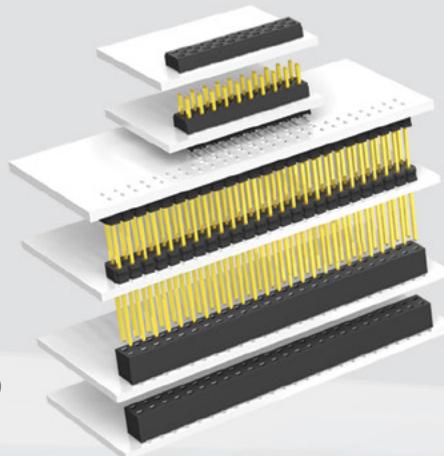
- Interconnect expertise
- Industry leading online tools
- Build-to-order manufacturing policy allows Samtec to support high volume or small order quantities, while a flexible manufacturing model minimizes capacity bottlenecks
- Aggressive up-front pricing advantage
- Scheduling flexibility
- World Direct shipping
- Quick turn prototypes and quotes
- Global pricing / global systems
- EDI capabilities
- In-house Signal Integrity Group offers personal SI consulting and support along with application specific design, modeling, and testing
- Ranked by *The Bishop Report* as the customer service industry leader for over a decade
- Secondary manufacturing model available on most connectors

**SAMTEC.COM**  
Industry Leading Online Tools

# INTERCONNECT SOLUTIONS

## Flexible Board Stackers

- 0,80 mm to 3,96 mm pitch systems
- Pass-through contacts to connect multiple boards
- Up to six rows and up to 50 pins per row
- Low profile and skyscraper solutions
- Contact flexibility
- Floating contact systems



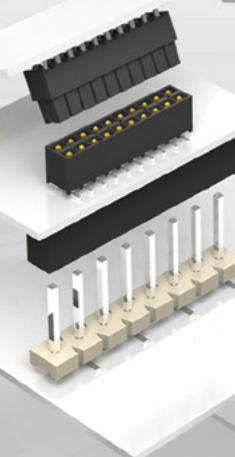
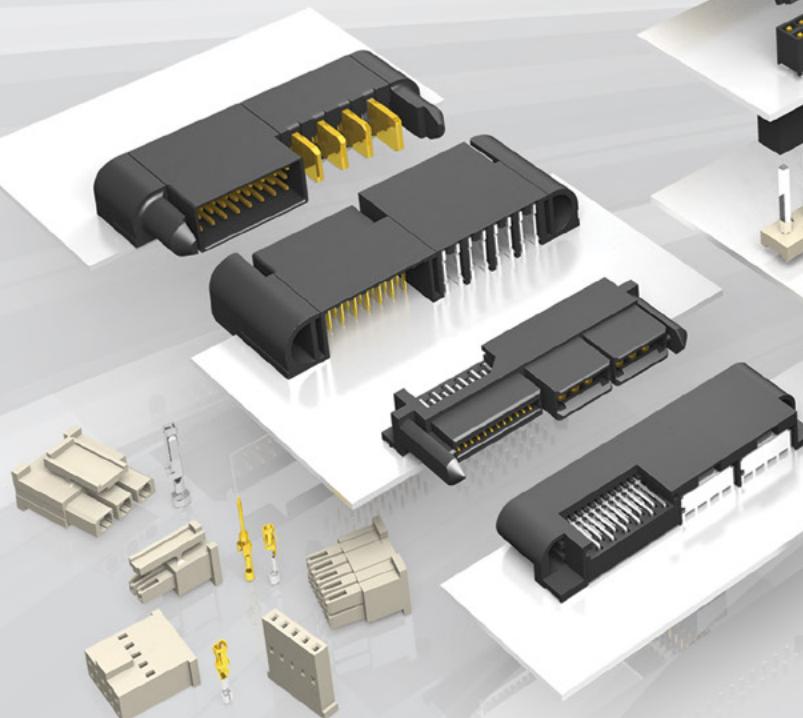
## Power Mate® and Mini Mate®

- Up to 5.9 A per contact (IPBX/IPX1 Series)
- Individually shrouded contacts on 4,19 mm or 2,54 mm pitch

## PowerStrip™

### PowerStrip™/40, PowerStrip™/30, PowerStrip™/20

- Small form factor high power systems
- Power only, or power/signal combinations



## EXTreme Ten60Power™

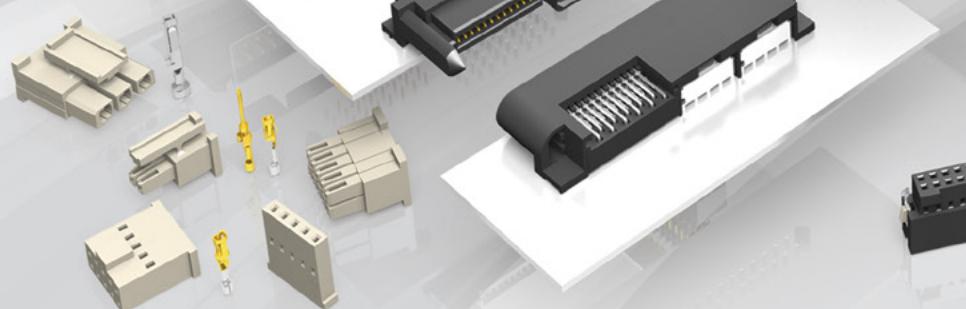
- Up to 60 A per power blade
- Rated for resistance to arcing for hot plug applications

## EXTreme LPHPower™

- Up to 30 A per power blade
- Double stacked blades per bank for increased density and power

## Tiger Eye™ Systems

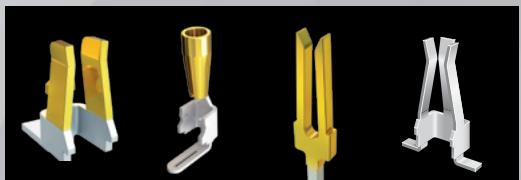
- Multi-finger, BeCu contact system for high reliability and high cycle applications
- 0,80 mm, 1,27 mm, 2,00 mm pitch systems
- Locking clip, alignment pin, weld tab or screw down ruggedizing features
- Vertical and right angle for parallel, perpendicular or coplanar applications



## High Speed Edge Card Systems

- Pitch variety: 0,50 mm, 0,635 mm, 0,80 mm, 1,00 mm, 1,27 mm, 2,00 mm
- Mating cards: 0,80 mm, 1,60 mm, 2,40 mm
- High speed, high density interconnects with up to 200 total pins
- Vertical, right angle and edge mount terminations
- Ruggedizing features such as latches and weld tabs

## Contact Flexibility



**Tiger Claw™**  
Pass-through

**Tiger Eye™**  
High Reliability

**Tiger Buy™**  
High Retention

**Power Eye™**  
High Current

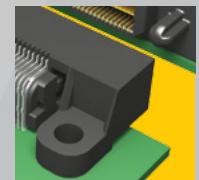
## Rugged Features



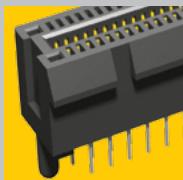
**Friction Locks**



**Guide Posts**



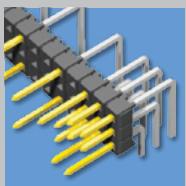
**Screw Downs**



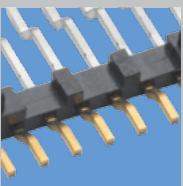
**Molded Alignment Pins**



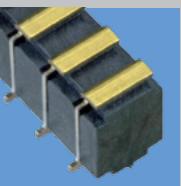
## Custom Solutions



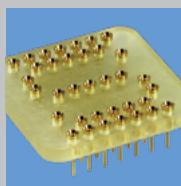
Pin Modifications



Body Modifications



Custom Connectors



Prototyping



Special Plating



Inline Testing



Qualification Testing

## EXTENDED LIFE PRODUCTS

E.L.P.™ certified systems are tested to rigorous standards that evaluate contact resistance in simulated storage and field conditions:

- 10 year Mixed Flowing Gas (MFG)
- High Mating Cycles (250 to 2,500)



For test results and complete details on Samtec's E.L.P.™ program please visit [www.samtec.com/ELP](http://www.samtec.com/ELP) or, email [autosalesgroup@samtec.com](mailto:autosalesgroup@samtec.com) for a list of automotive grade products.

## POWER SERVICES, SUPPORT AND TESTING

- Standard power test data, including current carrying capacity, working voltage, voltage drop and resistance, is available for selected power systems; for testing procedures, visit [samtec.com/powerintegrity](http://samtec.com/powerintegrity)
- Current Cycling Testing Data, which demonstrates connector performance in realistic and common applications, is available for select series
- Power Integrity Certified® products undergo testing and additional requirements unique to Samtec; to be certified, products must:
  - pass Current Cycling Test EIA 365-55
  - have current carrying capacity, resistance and amps vs. number of contacts data available
  - have Power Integrity Guidelines developed



Visit [samtec.com/powerintegrity](http://samtec.com/powerintegrity) for more information.



## GLOBAL OPERATIONS NETWORK



**Samtec**  
SUDDEN SERVICE

[www.samtec.com](http://www.samtec.com)

ISO-9001 and/or TS 16949 Certified  
SEPTEMBER 2014