FLEXIBLE STACKING

With the largest variety of board-to-board interconnects, Samtec makes it easy to find board stackers for any application. Header and socket systems are available in a variety of pitch, density, stack height, orientation and many more standard or custom options.

INCREDIBLE FLEXIBILITY

- Post height: adjustable in .005" increments
- Body positions: adjustable in .005" increments
- Board stacking distance: 1.65 mm - 48.51 mm
- Number of pins: 2-300
- Number of rows: 1-6

VARIETY OF PITCHES

- 0.80 mm
- 1.00 mm
- 1.27 mm
- 1.27 x 1.27 mm
- 1.27 x 2.54 mm
- 2.00 mm
- 2.54 mm

BUILD IT YOURSELF

Check out Solutionator® to quickly build a mated set for your specific application. Visit samtec.com/solutionator

CUSTOMIZABLE

- Mix-and-match headers and sockets to find the right solution
- Quick and easy custom parts are available. Contact Samtec.
VARIETY OF CONTACTS

**Tiger Eye Contact**
- High-reliability
- High mating cycles
- Multi-finger contact

**Tiger Claw Contact**
- Pass-through
- Ultra-low profile
- Dual wipe contact

**Tiger Buy Contact**
- High-retention
- Cost-effective
- Tuning fork contact

**Tiger Beam Contact**
- Best cost
- Reliable performance
- Post & beam contact

VARIETY OF ORIENTATIONS/APPLICATIONS

**Standard**
- Choice of contact system
- Single, double and triple row designs
- Largest variety

**Low Profile**
- Down to 1.65 mm stack height
- Tiger Claw™ contacts
- Space saving

**Elevated**
- Up to 48.26 mm stack height
- Design flexibility
- Clearance, air flow

**Pass-through**
- Connect three or more boards
- Tiger Claw™ and Tiger Beam™ contacts
- Surface mount or offset through-hole

**Right-angle**
- Design flexibility
- Tiger Claw™ & Tiger Buy™ contacts
- Through-hole, surface mount

**Coplanar**
- 1-4 row designs
- Surface mount, through-hole or mixed technology
- Tiger Claw™ & Tiger Beam™ contacts

**Bottom Entry**
- Tiger Claw™ contacts
- Access to components when mated
- Space savings

**Self-nesting**
- Tiger Buy™ contacts
- Press-fit or through-hole tails
- PC/104-Plus™ embedded applications

samtec.com/connectors
# BOARD STACKING REFERENCE

Focused/most popular series in charts. For all flexible stacking solutions visit [samtec.com/connectors](http://samtec.com/connectors)

## ONE-PIECE, 0.80 mm & 1.00 mm PITCH

<table>
<thead>
<tr>
<th>SERIES</th>
<th>FSI</th>
<th>SEI</th>
<th>SIB</th>
<th>CLE</th>
<th>FTE</th>
<th>CLM</th>
<th>FTMH/FTM</th>
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<th>MW</th>
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<td>V &amp; RA</td>
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## 1.27 mm PITCH HEADERS & SOCKETS

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<th>FLE</th>
<th>FTS</th>
<th>FTSH</th>
<th>FW</th>
<th>SOLC</th>
<th>TOLC</th>
<th>DWM/HDWM</th>
<th>FTR</th>
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<th>ESQT/-368</th>
<th>MMS</th>
<th>SMM</th>
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### 2.54 mm PITCH HEADERS & SOCKETS

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IDC SYSTEMS

1.27 mm & 2.00 mm PITCH IDC CABLE SYSTEMS
- Exceptionally low-profile design
- Choice of socket and plug terminations
- Single or double ended
- Twisted pair or flat cable
- Tiger Eye™ board level mates
- Mating shrouded and ejector terminal strips
- Variety of options including rugged strain relief, polarization and standard wiring configurations

FLEXIBLE FLAT RIBBON IDC SYSTEMS
- Low profile with no bulky side locks
- Choice of dual beam socket or plug terminations

MOLDED-TO-POSITION IDC ASSEMBLIES
- Low profile and skinny side locks
- Plugs with (0.64 mm) .025" square tail headers

IDC CABLE ASSEMBLIES & HEADERS

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<thead>
<tr>
<th>SERIES</th>
<th>IDMX/IDSX</th>
<th>HCMX/HCSX</th>
<th>TCSD/TCMD</th>
<th>FFSD/FFMD</th>
<th>FFTP/FMTP</th>
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<td>Cable</td>
<td>28 AWG Color Coded (standard) or Gray (optional)</td>
<td>28 AWG Gray</td>
<td>30 AWG Gray</td>
<td>30 AWG Twisted Pair</td>
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<td>Notes</td>
<td>Low Profile &amp; Slim Body</td>
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<td>Strain Relief Available</td>
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samtec.com/idc
MODIFIED & CUSTOM SOLUTIONS

WILLINGNESS, SUPPORT & EXPERTISE

Customs and Modifications make up about 28% of Samtec’s total sales.

23% Express Modifications
92% do not require engineering or tooling charges

5% Engineered Customs

A substantial percentage of Samtec’s product segments are custom.

High-Speed Board-to-Board 11.4%
High-Speed Cables 50%
Micro Rugged 18.5%
Flex Stacking & IDC 25.9%

FLEXIBLE CAPABILITIES

• Full engineering, design and prototype support
• Design, simulation and processing assistance
• Quotes and samples turned around in 24 hours
• Flexible, quick-turn manufacturing
• Dedicated Application Specific Product engineers and technicians
• Modified or custom options for board level connectors and cable assemblies including: contacts, bodies, stamping, plating, wiring, molding, ruggedizing features and much more
• Contact the Application Specific Products Group at asp@samtec.com for express modifications or customasp@samtec.com for engineered customs.

ENGINEERED CUSTOM
Multi-power staging, power/signal combo, header/socket combo & custom body

EXPRESS MODIFICATION
2.54 mm pitch Mini Mate® discrete wire assembly with custom color coded breakout

samtec.com/custom