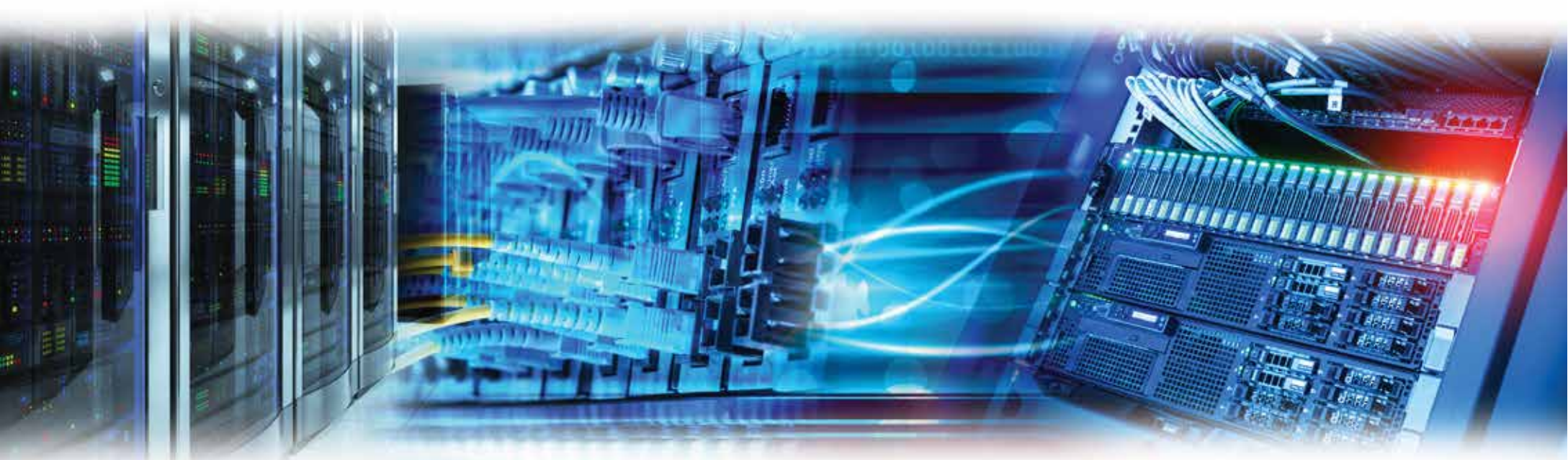


JOIN US AT...

Hirose Technology Exhibition

DESIGNCON® 2019

WHERE THE CHIP MEETS THE BOARD



Hirose Electric is exhibiting at this premier High Speed event. During the exhibition, we will present a variety of our high performance & high reliability products that utilize the latest in High Speed interconnect technology.

We look forward to meeting you at booth # 639. Thank you.

Questions, please contact your local Hirose sales office for additional information.

CONNECTING THE FUTURE ▶▶▶

CONNECTOR SELECTOR

2018



HRS HIROSE ELECTRIC CO., LTD.

[Click here for our Connector Selector](#)

ABOUT DESIGNCON 2019

| | |
|---------------|---|
| Date/Time | Wed., January 30th: 12:30 pm-6:00 pm Thur., January 31st: 12:30 pm-6:00 pm |
| Location | Santa Clara Convention Center 5001 Great American Parkway Santa Clara, CA 95054 |
| Booth # | 639 |
| Official Site | https://designcon.com |

DESIGNCON® 2019
WHERE THE CHIP MEETS THE BOARD



VISIT US AT BOOTH #639

[Click here for our booth location](#)

PRODUCT HIGHLIGHTS



IT8 Series

56+ Gbps Mezzanine Connector

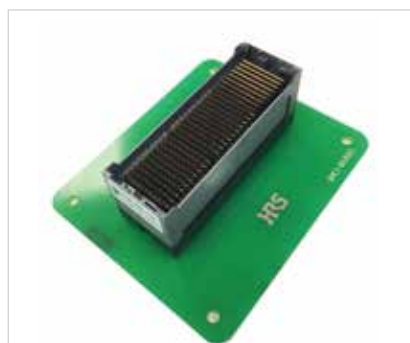
- 1.0x2.5mm BGA Area Array Optimized for Routing
- Available in 120, 192, or 288 to suit application needs
- Wide Selection of Stack heights:
 - 10,11,12,13mm (2-pc structure)
 - 14 to 46mm (3-pc structure)
- Class leading SI performance
 - Available in 92ohm impedance
 - 2-piece type: 56+Gbps
 - 3-piece type: 56+Gbps
- Floating capability allows multiple connectors per board
 - Floating amount: +/-0.2mm in X, Y
- Number of positions can be customized
 - 24 x n (n=1, 2, 3...) pos available
 - (Standard variations: 120,192,288)



IT9 Series

3 & 4 Row SMT • 28+ Gbps

- 0.5mm Pitch, 3 or 4 Row Design, for Compact Footprint
- 91 Differential Pairs Per Square Inch
- 84 to 224 Positions to Suit Application Needs*
- 28+ Gbps Data rate Capable Supports IEEE 802.3ap ICR Spec
- 85 Ω & 100Ω Impedance Supported by 92Ω Connector Impedance
- Self Adjusting Co-Planarity Assures PCB Assembly Quality
- ± 1.6mm Mating Alignment for Excellent Manufacturability
- Large Retention Pegs for Robust Mounting on PCB
- Multiple Blades Available for Custom Pinout Configuration
 - GSSGSSG... for High Speed Signals
 - SSSS... for Single Ended Signals and Power



IT5 Series

25+Gbps High Density BGA Connectors

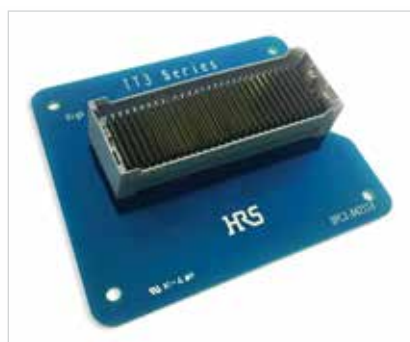
- Low height receptacles for excellent reflow solderability
 - Low thermal mass for reflow process
 - Light weight for 2nd reflow
 - X-ray inspection friendly
- Stacking height: 14 to 40mm
- SI capability - 100ohm impedance
 - 25+Gbps per differential pair
- Multiple mating capability - Floating amount:
 - +/-0.2mm in the lateral direction
 - +/-0.3mm in the longitudinal direction
- Low mating/extracting forces
 - Mating 135N max (300pos)
 - Unmating 15N min (300pos)



IT-P Series

60 Amp Board-to-Board Power Pin Connectors

- Up to 60Amp/pin current rating.
- Unique 3-piece structure for flexibility
- Wide misalignment tolerance (±0.3mm)
- Paste in hole reflow assembly
- Stacking heights from 14 to 44mm
- 12mm pitch pin through - hole
- Designed to be used/assembled alongside IT3, IT5, IT7 & IT8



IT3 Series

3-piece High Density BGA Connectors

- Unique 3-pc Design Features
- Low height receptacles for excellent reflow solderability
 - Receptacle heights are only 6mm
 - Low thermal mass for reflow process
 - Light weight for 2nd reflow
 - X-ray inspection friendly
- Floating for misalignment tolerances +/-0.3mm in the longitudinal direction +/-0.2mm in the lateral direction
- Wide stacking height variation from 14 to 42mm
- Low mating/extracting forces mating 135N max / unmating 15N min for 300pos.



2.92mm Series

2.92 mm Coaxial Connector Supporting 40 GHz

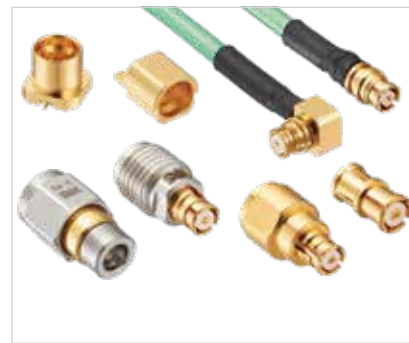
- Compliant MIL-STD-348B Standard
- Supports up to 40GHz frequency
- Screw mounting & Flexible PCB thickness
- Wide Variation
 - Plug, Jack, Adapter, Terminator and Attenuator
- 0.085 inch flexible cable applicable
- RoHS2 compliant



2.4mm Series

2.4mm Coaxial Connector Supporting 50GHz

- Complies with MIL-STD-348B Standard
- Supports up to 50GHz frequency
- Screw mounting & Flexible PCB thickness
- Wide Variation
 - Plug, Jack and Attenuator
- 0.085 inch flexible cable applicable
- RoHS2 compliant



SMP Series

Up to 40GHz, MIL compliant Push on lock, Millimeter connector

- Excellent high frequency performance: 30, 40GHz
 - Easy push on lock
- High contact reliability
- Wide variations
 - Plug, Jack, Conversion Adapter and Terminator
 - Insertion and Extraction force <FD/LD/SB>
- MIL standard compliant (MIL-STD-348B)
- RoHS 2015/863 Compliant
- Halogen Free



CX Series

USB Type-C Connector Product Offering for High Current & Rugged Design Requirements

- Expanded product offering gives new options for:
 - design flexibility
 - enhanced mounting strength to the PCB
 - increased durability
 - reduced required PCB mounting area for space savings
- Compact USB 3.1 Gen2 Type-C compliant interface connectors
- High-data speeds up to 10Gbps
- Built-in guide posts improves mounting accuracy



ix Industrial™ Series

Small robust design for use in industrial environments

- Compact: 75% smaller in size than a RJ45
- Robust: 5000 mating cycles
- High-speed Ethernet Cat5e (1Gbps) & Cat6a (10Gbps)
- High EMC resistance
- Complies with IEC PAS61076-3-124
- RoHS-compliant

