HIGH-SPEED DUAL ROW STRIPS

samtec.com/mezzanine
GROUND PLANE CONNECTORS

RELIABLE SI PERFORMANCE • LOW-PROFILE • SLIM FOOTPRINT

INTEGRAL GROUND/POWER PLANE

• Surface mount ground plane between two signal rows improves electrical performance
• Significantly reduces row-to-row crosstalk
• Integral metal plane for power to 25 Amps

FEATURES

Differential pairs reduce noise
Mixed technology (MIT/MIS)
Options for power and retention

QTH/QSH
5 mm stack height shown

samtec.com/qseries
LOW PROFILE GROUND PLANE CONNECTORS

- 0.50 mm, 0.635 mm and 0.80 mm pitch
- 5 mm to 25 mm stack heights
- Integral ground/power plane
- Compatible with mPOWER® (UMPT/UMPS) for power/signal flexibility
- Differential pairs and edge mount options available

SLIM GROUND PLANE CONNECTORS

- 0.80 mm pitch and 1.20 mm contact wipe
- Edge Rate® contacts optimized for superior signal integrity performance
- Right-angle available for coplanar and perpendicular mating
- Compatible with mPOWER® (UMPT/UMPS) for power/signal flexibility

RUGGED GROUND PLANE CONNECTORS

- 0.635 mm pitch
- Increased insertion depth for rugged applications
- Up to 156 signal pins/48 signal pairs standard
- Vertical, right-angle and edge mount
- Shielded systems available (QMSS/QFSS)
- Compatible with mPOWER® (UMPT/UMPS) for power/signal flexibility
EDGE RATE® CONTACT STRIPS

OPTIMIZED FOR SPEED • HIGH CYCLES • INCREASED CONTACT WIPE

EDGE RATE® CONTACT SYSTEM:
- Smooth milled mating surface reduces wear and increases durability
- Lower insertion and withdrawal forces
- Robust when “zippered” during unmating
- Minimized parallel surface area reduces broadside coupling and crosstalk
- Designed, simulated and optimized for 50 Ω and 100 Ω systems

STACK HEIGHT FLEXIBILITY
(Size in mm)

ERM5/ERF5
ERM6/ERF6
ERM8/ERF8

ERM8/ERF8
Right-angle with latching shown

samtec.com/edgerate
0.80 mm PITCH SYSTEM

- 1.5 mm contact wipe for a reliable connection
- Differential pair and hot swap options
- Stack heights from 7 mm to 18 mm
- Supports high-speed protocols including Ethernet and PCI Express®
- Right-angle and edge mount available

0.635 mm PITCH SYSTEM

- Extremely slim 2.5 mm body width
- Up to 120 positions in a 2-row design
- 5 mm stack height

0.50 mm PITCH SYSTEM

- 1.00 mm contact wipe
- Up to 40% PCB space savings with 0.50 mm pitch vs. 0.80 mm pitch
- Stack heights from 7 mm to 12 mm
- 20 to 150 total positions