EDGE® RATE SYSTEM

RUGGED HIGH-SPEED STRIPS



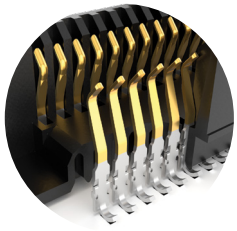
NRZ 28 Gbps | PAM4 56 Gbps

FEATURES & BENEFITS

Edge Rate® rugged high-speed connector strips are designed for high-speed, high cycle applications, and enabled by Samtec's signal integrity-optimized Edge Rate® contact system.

- Up to 1.5 mm contact wipe for a reliable connection
- 20 to 200 positions
- Choice of 0.50 mm, 0.635 mm or 0.80 mm pitch
- 0.50 mm pitch system offers up to 40% PCB space savings vs. 0.80 mm pitch
- 0.635 mm pitch system with extremely slim 2.5 mm body width
- Rugged latching, extended guide posts and 360° shielding
- Severe Environment Testing qualified (ERM8/ERF8); aligns with MIL-DTL-55302. Visit **samtec.com/set**

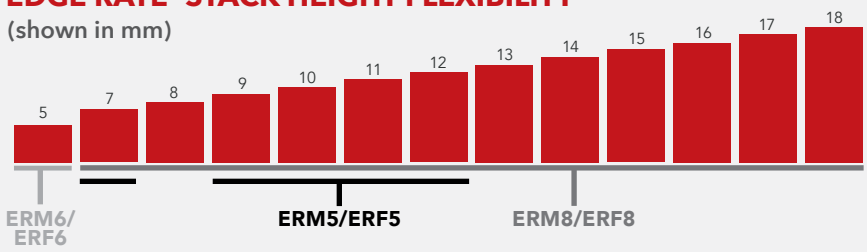
EDGE® RATE CONTACT

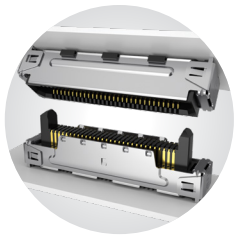


Signal integrity-optimized Edge Rate® contact system reduces broadside coupling

EDGE RATE® STACK HEIGHT FLEXIBILITY

(shown in mm)





Rugged 360° shielding reduces EMI

KEY SPECIFICATIONS

SERIES	PITCH	INSULATOR MATERIAL	TERMINAL MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
ERM5 / ERF5	0.50 mm	Black LCP	Phosphor Bronze or BeCu (ERM5), BeCu (ERF5)	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.5 A	190 VAC/ 269 VDC	Yes
ERM6 / ERF6	0.635 mm		Copper Alloy			1.4 A	155 VAC/ 219 VDC	
ERM8 / ERF8	0.80 mm		Phosphor Bronze or BeCu (ERM8), BeCu (ERF8)			1.4 A	225 VAC/ 318 VDC	

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

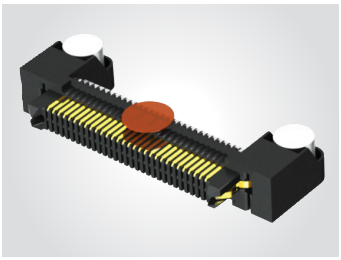
EDGE® RATE SYSTEM

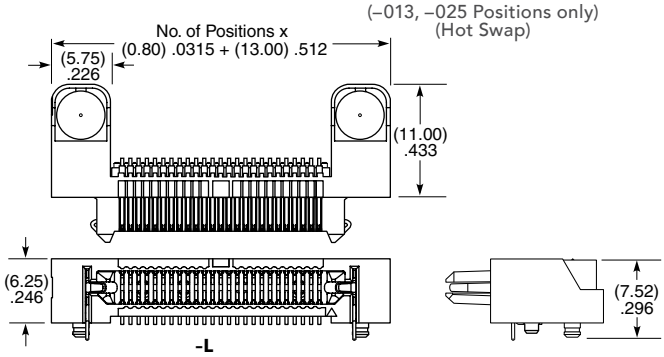
NRZ 28 Gbps

(0.80 mm) .0315" PITCH • RIGHT-ANGLE & EDGE MOUNT HIGH-SPEED HEADERS

ERM8	–	POSITIONS PER ROW	–	01	–	PLATING OPTION	–	D	–	RA	–	OPTIONS	–	"X"R
Right-Angle Terminal		**–010, –013, –020, –025, –030, –040, –049, –050, –060, –070, –075**				**–L** = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on tail						**–K** = (6.00 mm) .236" DIA Polyimide Film Pick & Place Pad **–L** = Latching **–DS** = Differential Pair (–013, –025 Positions only) (Hot Swap)		**–TR** = Tape & Reel **–FR** = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)

ERM8-RA
Board Mates:
ERF8
Cable Mates:
ERCD

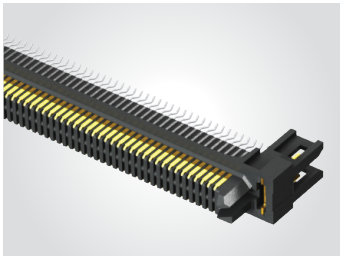


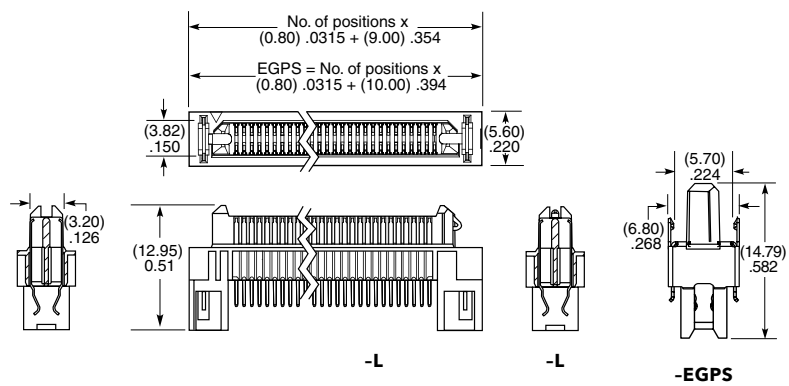


View complete specifications at: **samtec.com?ERM8-RA**

ERM8	–	POSITIONS PER ROW	–	01	–	PLATING OPTION	–	D	–	EM2	–	OPTIONS	–	"X"R
Edge Mount Terminal		**–010, –013, –020, –025, –030, –040, –049, –050, –060, –070, –075**				**–L** = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on tail				= (1.60 mm) .062" Thick PCB		**–L** = Latching (Mates to ERF8 Lead Style –05.0 or –RA Only) **–DS** = Differential Pair (–013 & –025 Positions only) (Hot Swap) **–EGPS** = Extended Guide Post Shield (–010, –020, –025, –030 Positions Only) **–DSS** = Differential Pair + Extended Guide Post Shield (–025 Positions Only) (Hot Swap)		**–TR** = Tape & Reel **–FR** = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)

ERM8-EM
Board Mates:
ERF8
Cable Mates:
ERCD





Note:
Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: **samtec.com?ERM8-EM**

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