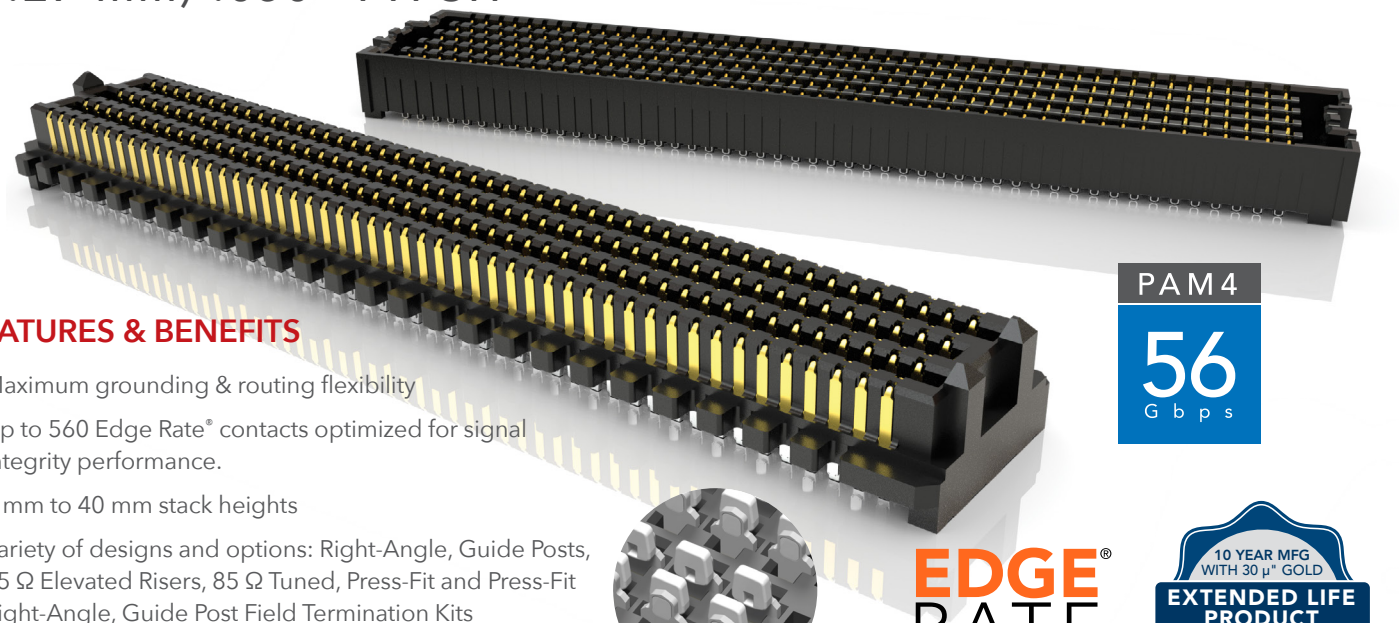
SEARAY™

HIGH-DENSITY OPEN-PIN-FIELD ARRAYS

(1.27 mm) .050" PITCH

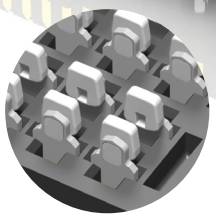


PAM4

56 Gbps

FEATURES & BENEFITS

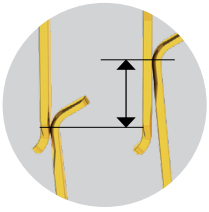
- Maximum grounding & routing flexibility
- Up to 560 Edge Rate® contacts optimized for signal integrity performance.
- 7 mm to 40 mm stack heights
- Variety of designs and options: Right-Angle, Guide Posts, 85 Ω Elevated Risers, 85 Ω Tuned, Press-Fit and Press-Fit Right-Angle, Guide Post Field Termination Kits
- Cable mates (SEAC Series) and Jack Screw Standoffs (JSO Series) also available
- Standards: VITA™ 47, VITA™ 57.1 FMC™, VITA™ 57.4 FMC™+, VITA™ 74 VNX™, PISMO™ 2
- Supports high-speed protocols such as Ethernet, PCI Express®, Fibre Channel & InfiniBand™
- Severe Environment Testing qualified (SEAM/SEAF); aligns with MIL-DTL-55302. Visit **samtec.com/set**



Solder Charges

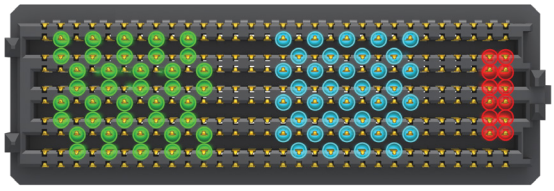
EDGE® RATE CONTACT

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES



(1.12 mm) .044" Nominal Wipe

MAXIMUM GROUNDING & ROUTING FLEXIBILITY



Differential Pair | Single-Ended | Power

VITA/VNX/VNX+/FMC/FMC+/XMC/XMC+ are all respective trademarks of VITA PCI-SIG®.

The PCI Express® design marks are registered trademarks and/or service marks of PCI-SIG.

SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
SEAM/SEAF	Black LCP	Copper Alloy	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC/339 VDC	Yes
SEAM-RA/SEAF-RA	Black LCP	Copper Alloy	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.9 A (10 pins powered)	240 VAC/339 VDC	Yes
SEAM-GP	Black LCP	Copper Alloy	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC/339 VDC	Yes
SEAMP/SEAFP	Natural High Temp Nylon	Copper Alloy (SEAMP) BeCu Alloy (SEAFP)	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.9 A (6 pins powered)	255 VAC/361 VDC	Not Available
SEAR	Black LCP	Hard Gold Plated	Au over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.4 A (20 pins powered)	240 VAC/339 VDC	Not Available
SEAMI	Black LCP	Copper Alloy	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	Not Available	Not Available	Yes

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

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.

(1.27 mm) .050" PITCH • SEAM/SEAF SERIES

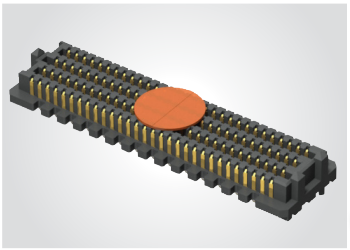
SERIES	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	K	"X" R
SEAM Terminal **SEAF** Socket	**–10, –15, –20, –30, –40, –50** SEAM & SEAF: –10 only available in -04 Row SEAM: –15 only available in –04 Row with -02.0 Lead Style, and –10 Row with any Lead Style SEAF: –15 only available in –04 or –10 Row with –5.0 Lead Style	**Specify LEAD STYLE from chart**	**–L** = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on solder tail **–P** = SureCoat™ 3 µ" (0.07 µm) Gold Flash and 30 µ" (0.76 µm) Palladium Nickel on contact area, Matte Tin on solder tail (–02.0, –03.5, –05.0 & SEAF –06.5 Lead Styles only)	**–04** **–05** **–06** **–08** **–10** (SEAM –05 Rows not available with –06.5 Lead Style)	**–1** = Tin/ Lead Alloy Solder Charge **–2** = Lead-Free Solder Charge	**–A** = Alignment Pin **–K** Polyimide Film Pick & Place Pad **–TR** = Tape & Reel **–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)		

NO. OF ROWS	B
–04	(7.06) .278
–05, –06	(9.60) .378
–08	(12.14) .478
–10	(14.68) .578

SEAM

Board Mates: SEAF, SEAFP

Standoffs: JSO

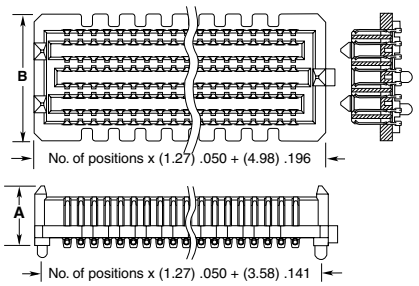


ALSO AVAILABLE
Contact Samtec

Other platings

OTHER SOLUTIONS
See website for 14 row option.

LEAD STYLE	A
–02.0	(5.61) .221
–03.0	(6.60) .260
–03.5	(7.11) .280
–06.5	(10.16) .400
–07.0	(10.59) .417
–09.0	(12.60) .496
–11.0	(14.61) .575

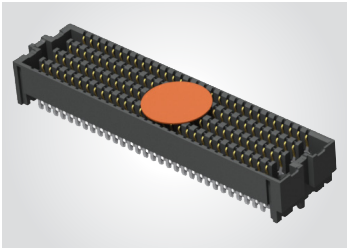


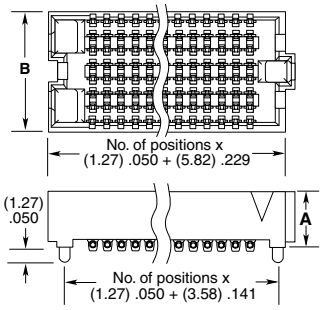
View complete specifications at: **samtec.com?SEAM**

SEAF

Board Mates: SEAM, SEAMP, SEAR, SEAMI

Standoffs: JSO





View complete specifications at: **samtec.com?SEAF**

LEAD STYLE	A
–05.0	(5.05) .199
–06.0	(6.05) .238
–06.5	(6.55) .258
–07.5	(7.54) .297

NO. OF ROWS	B
–04	(5.66) .223
–05, –06	(8.20) .323
–08	(10.74) .423
–10	(13.28) .523

MATED HEIGHTS

SEAM LEAD STYLE	SEAF LEAD STYLE			
	-05.0	-06.0	-06.5	-07.5
-02.0	7 mm	8 mm	8.5 mm	9.5 mm
-03.0	8 mm	9 mm	9.5 mm	10.5 mm
-03.5	8.5 mm	9.5 mm	10 mm	11 mm
-06.5	11.5 mm	12.5 mm	13 mm	14 mm
-07.0	12 mm	13 mm	13.5 mm	14.5 mm
-09.0	14 mm	15 mm	15.5 mm	16.5 mm
-11.0	16 mm	17 mm	17.5 mm	18.5 mm

STANDARDS

VITA™ 47
VITA™ 57.1 FMC™
VITA™ 57.4 FMC™+
VITA™ 74 VNX™
PISMO™ 2

Visit www.samtec.com/standards for more information.

Notes:
IPC-A-610F and
IPC J-STD-001F Class 3 solder joint.

Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set

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