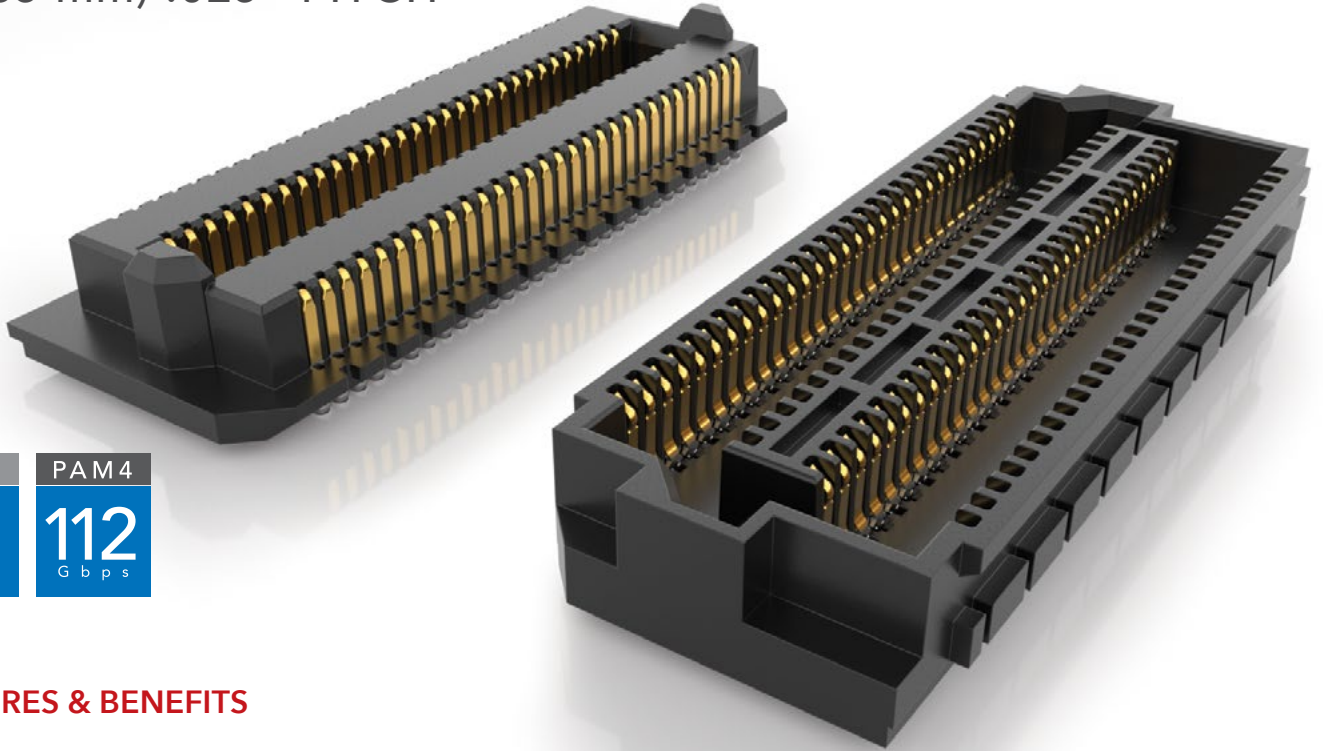


HIGH-PERFORMANCE ARRAY SYSTEM

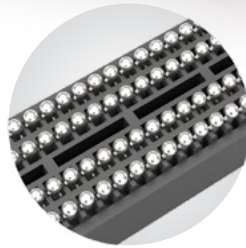
(0.635 mm) .025" PITCH



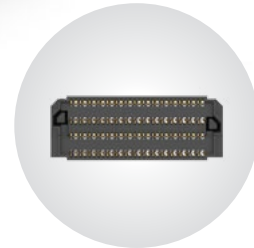
NRZ	PAM4
56 Gbps	112 Gbps

FEATURES & BENEFITS

- Flexible open-pin-field and cost optimized, extreme performance solution
- Low-profile 5 mm stack height and up to 10 mm
- 0.635 mm pitch
- Four row design with up to 400 total pins; roadmap to 1,000+ pins
- Data rate capable of PCIe[®] 5.0 and 100 GbE
- In Development: Cable assembly designs, 6, 8 and 10 rows, additional position counts



Solder ball technology for simplified processing



APF6 Sereis; 120 pins (actual size show)

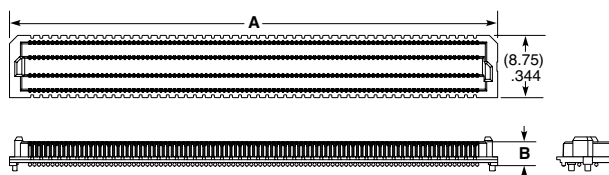
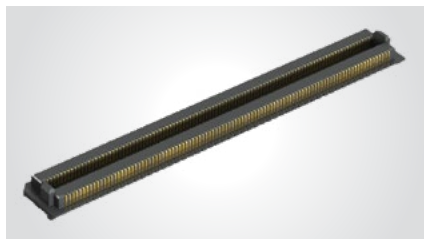
KEY SPECIFICATIONS

STACK HEIGHTS	TOTAL PINS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	LEAD-FREE SOLDERABLE
5 mm - 10 mm	40 - 400	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	Yes

(0.635 mm) .025" PITCH • 112 Gbps PAM4 OPEN-PIN-FIELD ARRAYS

SERIES	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	OPTION	"X"R
APM6 Terminal	-010, -020, -060, -100 (per row)	-01.5 = 1.5 mm (APM6 only)	-L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on tail	-04 = Four Rows	-2 = Lead-Free Solder Balls	(Leave blank for no alignment pin) -A = Alignment Pin	-TR = Tape & Reel -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)
APF6 Socket		-06.5 = 6.5 mm (APM6 only) -03.5 = 3.5 mm (APF6 only)	-S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on tail				

APM6
Board Mates:
APF6



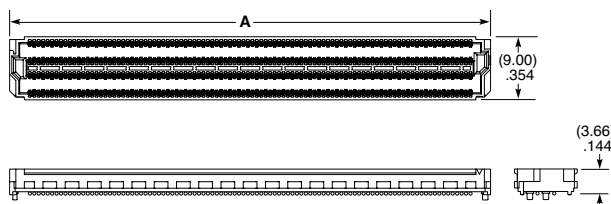
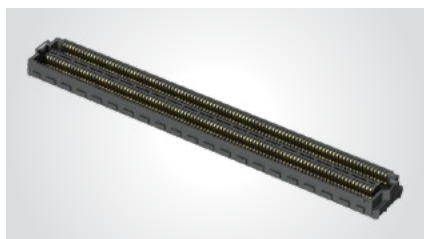
NO. OF POSITIONS PER ROW	A	LEAD STYLE	B
-010	(11.47) .451	-01.5	(3.33) .131
-020	(17.82) .701	-06.5	(8.33) .328
-060	(43.22) 1.701		
-100	(68.62) 2.701		

PRELIMINARY

MATED HEIGHTS *		
APF6 LEAD STYLE	APM6 LEAD STYLE	
	-01.5	-06.5
-03.5	(5.00 mm) .197"	(10.00 mm) .394"

* Processing conditions will affect mated height.

APF6
Board Mates:
APM6



PRELIMINARY

NO. OF POSITIONS PER ROW	A
-010	(11.47) .451
-020	(17.82) .701
-060	(43.22) 1.701
-100	(68.62) 2.701

Notes:
Some sizes, styles and options are non-standard, non-returnable