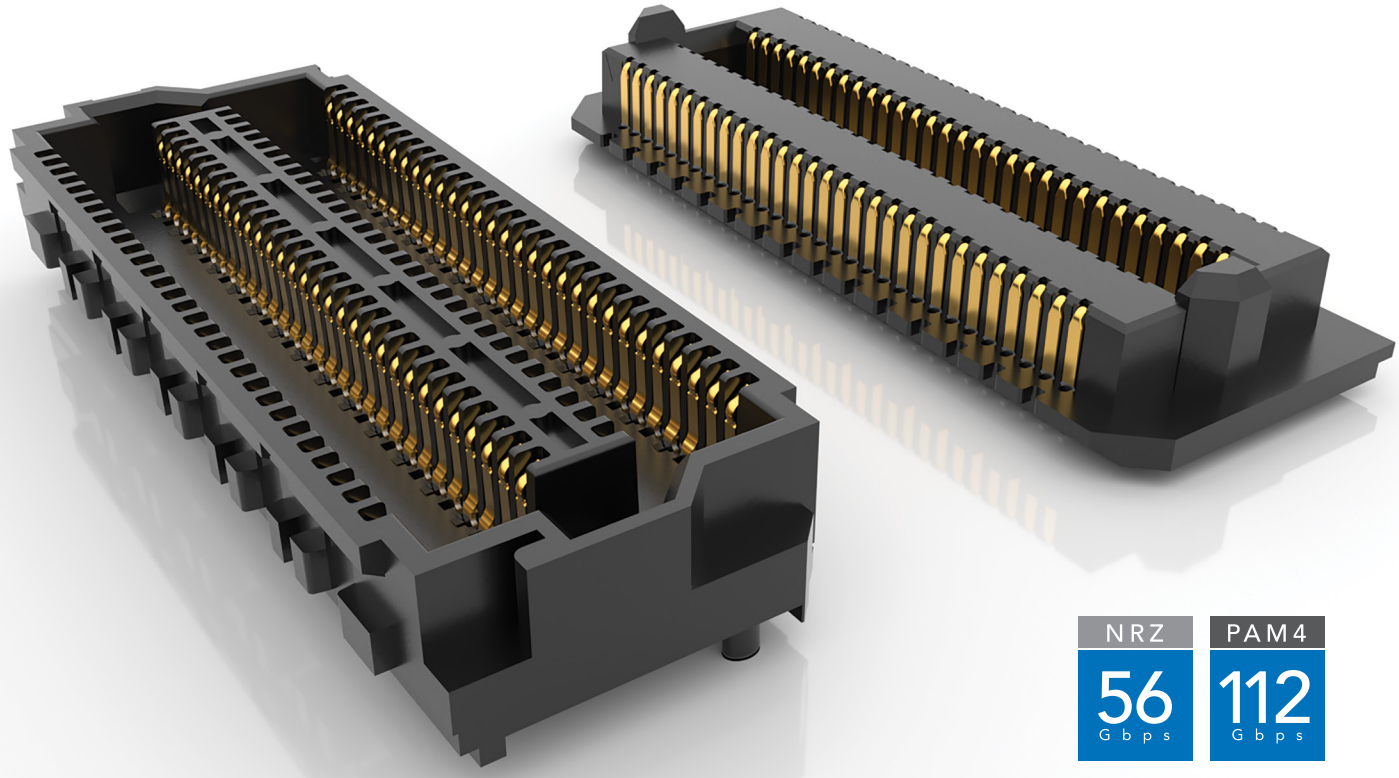
ACCELERATE®HP

HIGH-PERFORMANCE ARRAY SYSTEM

(0.635 mm) .025" PITCH

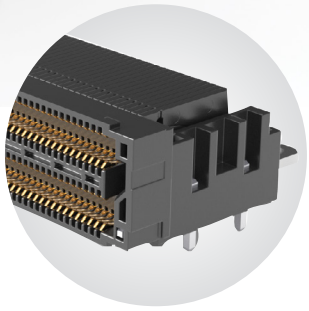


NRZ 56 Gbps

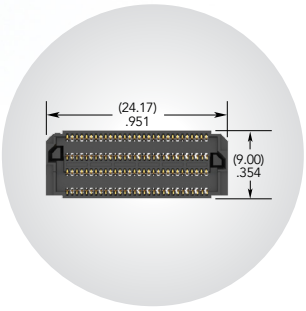
PAM4 112 Gbps

FEATURES & BENEFITS

- Flexible open-pin-field and cost optimized, extreme performance solution
- Low profile 5 mm and up to 10 mm stack heights
- 0.635 mm pitch
- Up to 800 total pins; roadmap to 1,000+ pins
- Data rate compatible with PCIe® 6.0/CXL® 3.1 and 100 GbE
- Road Map: 6 and 10 rows, additional position counts



Right-angle connector
(samtec.com?APF6-RA)



APF6 Series; 120 pins

KEY SPECIFICATIONS (APM6/APF6)

TOTAL PINS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
40 - 800	Black LCP	Copper Alloy	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.2 A (4 pins powered)	150 VAC/212 VDC	Yes

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

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.

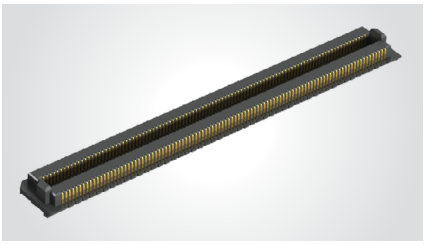
(0.635 mm) .025" PITCH • 112 Gbps PAM4 OPEN-PIN-FIELD ARRAYS

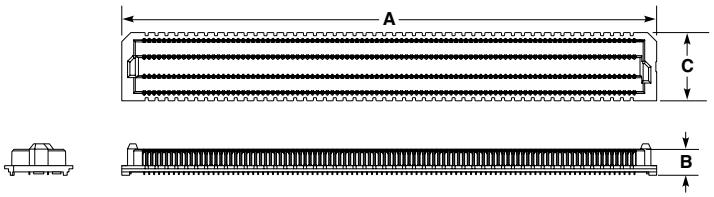
SERIES	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	NO. OF ROWS	0	OPTION	"X"R
APM6 Terminal **APF6** Socket	**–020, –040, –060, –100** (per row)	**–01.5** = 1.5 mm (APM6 only) **–01.9** = 1.9 mm (APM6 only) (Only mates with an APF6-RA) **–06.5** = 6.5 mm (APM6 only) **–03.5** = 3.5 mm (APF6 only)	**–L** = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on tail **–S** = 30 µ" (0.76 µm) Gold on contact area, Matte Tin on tail	**–04** = Four Rows **–08** = Eight Rows (Lead Style –01.5 & –03.5 with 100 Positions only)		(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)

APM6

Board Mates:
APF6, APF6-RA

Standoffs:
GPSO





NO. OF POSITIONS PER ROW	A
–020	(17.82) .701
–040	(30.52) 1.201
–060	(43.22) 1.701
–100	(68.62) 2.701

LEAD STYLE	B
–01.5	(3.33) .131
–01.9	(3.71) .146
–06.5	(8.33) .328

NO. OF ROWS	C
–04	(8.75) .344
–08	(17.95) .707

View complete specifications at: samtec.com?APM6

MATED HEIGHTS *

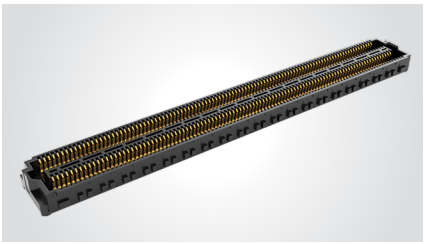
APF6 LEAD STYLE	APM6 LEAD STYLE	
	-01.5	-06.5
-03.5	(5.00 mm) .197"	(10.00 mm) .394"

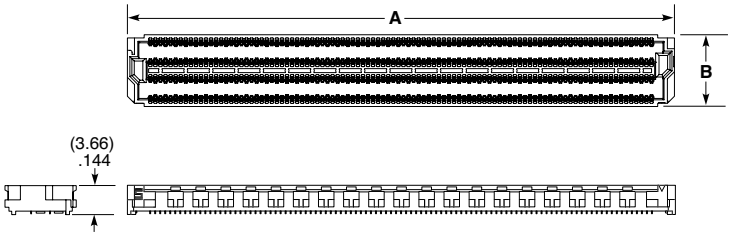
* Processing conditions will affect mated height.

APF6

Board Mates:
APM6

Standoffs:
GPSO





NO. OF POSITIONS PER ROW	A
–020	(17.82) .701
–040	(30.52) 1.201
–060	(43.22) 1.701
–100	(68.62) 2.701

NO. OF ROWS	B
–04	(9.00) .354
–08	(18.20) .717

ALSO AVAILABLE

Right-angle
samtec.com?APF6-RA

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

View complete specifications at: samtec.com?APF6

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Samtec:

ASP-209946-01 APF6-060-03.5-L-04-2-A-TR APF6-100-03.5-L-04-2-A-TR APF6-020-03.5-L-04-2-A-TR APF6-040-03.5-L-04-2-A-TR APF6-020-03.5-S-04-2-A-TR APF6-020-03.5-S-04-2-TR APF6-100-03.5-S-04-2-A-TR APF6-060-03.5-S-04-2-A-TR APF6-100-03.5-L-04-2-TR APF6-100-03.5-S-04-2-TR APF6-037-03.5-L-04-2-L-TR APF6-025-03.5-S-06-2-L-TR APF6-037-03.5-L-06-2-L-TR APF6-025-03.5-S-04-2-L-TR APF6-025-03.5-L-06-2-T-TR APF6-037-03.5-S-06-2-L-TR APF6-037-03.5-S-04-2-L-TR APF6-025-03.5-L-04-2-T-TR APF6-037-03.5-S-06-2-T-TR APF6-037-03.5-L-06-2-T-TR APF6-020-03.5-L-04-2-TR APF6-040-03.5-L-04-2-TR APF6-040-03.5-S-04-2-TR APF6-020-03.5-S-04-2-A-FR APF6-025-03.5-S-04-0-L-TR APF6-025-03.5-S-06-0-L-TR APF6-040-03.5-L-04-2-A-FR APF6-060-03.5-S-04-2-TR APF6-060-03.5-L-04-2-A-FR APF6-020-03.5-L-04-2-A-FR APF6-100-03.5-L-04-0-A-TR APF6-040-03.5-L-04-0-A-FR APF6-020-03.5-L-04-2-FR APF6-040-03.5-L-04-2-FR APF6-100-03.5-S-04-0-FR APF6-037-03.5-S-06-0-L-TR APF6-040-03.5-S-04-2-A-TR APF6-060-03.5-L-04-0-A-TR APF6-100-03.5-S-04-2-FR APF6-060-03.5-S-04-2-A-FR APF6-025-03.5-L-04-2-L-TR APF6-037-03.5-S-04-2-T-TR APF6-100-03.5-S-04-0-TR APF6-020-03.5-L-04-0-A-TR APF6-040-03.5-S-04-2-FR APF6-040-03.5-L-04-0-A-TR APF6-060-03.5-L-04-2-FR APF6-060-03.5-L-04-2-TR APF6-100-03.5-L-04-2-A-FR APF6-100-03.5-S-04-0-A-FR APF6-025-03.5-S-04-2-L-FR APF6-060-03.5-S-04-0-A-TR APF6-020-03.5-S-04-0-A-FR APF6-025-03.5-L-04-2-L-FR APF6-060-03.5-S-04-0-A-FR APF6-100-03.5-S-04-0-A-TR APF6-020-03.5-S-04-0-A-TR APF6-025-03.5-L-06-0-L-TR APF6-037-03.5-L-06-0-T-FR APF6-020-03.5-S-04-0-FR APF6-025-03.5-L-06-0-T-TR APF6-060-03.5-S-04-0-FR APF6-100-03.5-L-04-0-FR APF6-025-03.5-L-04-0-L-TR APF6-020-03.5-S-04-0-TR APM6-040-01.5-L-04-0-FR APF6-037-03.5-L-06-0-L-FR APF6-037-03.5-L-06-0-L-TR APF6-037-03.5-L-04-0-T-TR APM6-100-01.5-L-04-0-A-FR APF6-025-03.5-L-06-2-L-TR APF6-040-03.5-L-04-0-TR APF6-060-03.5-S-04-0-TR APF6-037-03.5-L-04-0-L-TR APF6-037-03.5-S-04-0-L-TR APF6-025-03.5-S-04-2-T-TR APF6-040-03.5-L-04-0-FR APF6-037-03.5-S-04-0-L-FR APF6-100-03.5-L-04-0-TR APF6-025-03.5-L-04-0-T-TR APF6-040-03.5-S-04-0-A-TR APF6-025-03.5-S-04-2-T-FR APF6-037-03.5-L-04-2-T-FR APF6-037-03.5-L-06-0-T-TR APF6-037-03.5-L-04-2-T-TR