NOVARAY® EXTREME PERFORMANCE HIGH-DENSITY ARRAYS (0.80 mm) .0315" x (1.80 mm) .071" PITCH

FEATURES & BENEFITS

- 128 Gbps PAM4/PCIe[®] 7.0 capable
- 48 fully shielded differential pairs per square inch
- 4.0 Tbps aggregate data rate 9 IEEE, 400G channels
- Extremely low crosstalk beyond 40 GHz
- Incredibly tight impedance control
- Minimal variance in data rate as stack height increases
- Utilizes 40% less space with the same data throughput as compared to traditional arrays



High-speed mezzanine connector and cable in one product family



BGA attach to board for greater density and optimized trace breakout region



PAM4

Two reliable points of contact with a 1.14 mm wipe

KEY SPECIFICATIONS (NVAM/NVAF)

TOTAL	INSULATOR	CONTACT	PLATING	OPERATING	CURRENT	WORKING VOLT-	LEAD-FREE
PAIRS	MATERIAL	MATERIAL		TEMP RANGE	RATING	AGE	SOLDERABLE
Up to 32 pairs	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	2.1 A per pin (signal) 9.6 A per pin (ground)	200 VAC/283 VDC	Yes

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

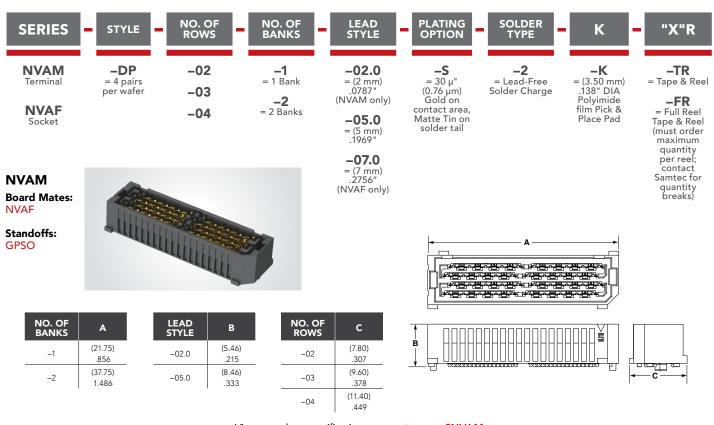
F-224 (Rev 12DEC24)

samtec.com/NovaRay

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.



0.80 mm x 1.80 mm PITCH • EXTREME PERFORMANCE ARRAYS

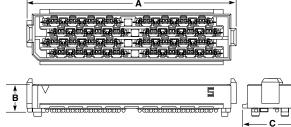


View complete specifications at: samtec.com?NVAM



Standoffs: GPSO





NO. OF BANKS	A
-1	(20.25) .797
-2	(36.25) 1.427

B (4.80)

.189

(9.60)

.378

LEAD STYLE

-05.0

_04

MATED HEIGHTS*						
	NVAM LEAD STYLE					
NVAF LEAD STYLE	-02.0	-05.0				
-05.0	(7.00) .276	(10.00) .394				
-07.0	(9.00) .354	(12.00) .472				

*Processing conditions will affect mated height.

Notes:

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

AGGREGATE DATA RATE (NRZ) 1024 1536 2048 3072 4096 Gbps Gbps Gbps Gbps Gbps 1 Bank 2 Bank 2 Row 3 Row 4 Row 2 Row 3 Row 4 Row 8 Pairs 12 Pairs 16 Pairs 24 Pairs 32 Pairs

-07.0	.268
NO. OF ROWS	с
-02	(6.00) .236
-03	(7.80) .307

View complete specifications at: samtec.com?NVAF

samtec.com/NovaRay

F-224 (Rev 12DEC24)

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:

NVAM-DP-02-1-02.0-S-2-C-TR NVAM-DP-04-2-02.0-S-2-C-TR NVAM-DP-03-1-02.0-S-2-C-TR