

EXTREME PERFORMANCE & DENSITY ARRAYS PAME

0.80 mm PITCH NOVARAY™ ULTRA-HIGH SPEED SYSTEM



NOVARA



- 112 Gbps PAM4 per channel
- 4.0 Tbps aggregate data rate 9 IEEE 400G channels
- Fully shielded differential pair design
- Extremely low crosstalk (to 40 GHz)
- Tight impedance control
- Minimal variance in data rate as stack height increases
- 112 differential pairs per square inch
- Utilizes 40% less space with the same data throughput as compared to traditional arrays
- Stub-free mating

92 Ω solution addresses both 85 Ω and 100 Ω applications



High-speed mezzanine connector and cable in one product family



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



Guaranteed two points of contact ensure a more reliable connection

Aggregate Data Rate (NRZ)						
448 Gbps	672 Gbps	896 Gbps		1344 Gbps	1792 Gpbs	4032 Gbps*
1 Bank			2 Bank			3 Bank*
2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	6 Row*
8 Pairs	12 Pairs	16 Pairs		24 Pairs	32 Pairs	72 Pairs*

* In development

System

- **NVAM** 0.80 mm Pitch Terminal
- NVAF 0.80 mm Pitch Socket

- NVAC 0.80 mm Pitch Socket Cable Assembly
- NVAM-C 0.80 mm Pitch Terminal for NVAC Series