

# Intelligence Enabled: Pascaline Technology Unveils Velocity™ FPGA Cards

*Pascaline Technology Introduces Velocity™ Series FPGA Cards for AI and ML, FinTech, Biotech, Research, Cryptocurrency Markets*

BELLEVUE, WA, UNITED STATES, January 20, 2025 /EINPresswire.com/ -- Today, [Pascaline Technology](#) announces the launch of its [Velocity™](#) Series FPGA Cards, designed to meet growing demands of AI/ML, FinTech, Biotech, and General Research industries. Powered by AMD Xilinx UltraSCALE+ FPGA technology, these cards deliver unparalleled performance, flexibility, and scalability for diverse computational workloads.

Breakthrough Performance for Next-Generation Applications:

The Velocity™ Series FPGA cards offer powerful features tailored to accelerate demanding workloads.

- **High-Speed Networking:** Equipped with multiple high-speed network interfaces supporting 100G SERDES and Ethernet for seamless connectivity.
- **Flexible Memory Options:** Configurable DDR4 memory (16GB to 256GB), ensuring optimal performance across diverse applications.
- **Advanced Storage:** The Velocity™ 200 series includes one high-capacity NVMe interfaces for ultra-fast data access and locates computation close to storage for improved system performance at ultra-low latency.
- **Enhanced I/O Options:** The Velocity™ 200 series adds two Slim SAS connectors, expanding I/O capabilities for more complex configurations.



Pascaline Technology's Velocity™ 100 Board

**pascaline™**   
intelligence enabled

- Powerful FPGA platform:

Xilinx UltraSCALE+ XCVU13PFHGA2014-2L-E

Speed Grade -2 Low Power

Extended Temperature range

Two Versatile Programmable Platforms:

Velocity™ 100 Series: (3 versions)

- Form Factor: Half-height, half-length PCI-E cards
- Availability: Shipping now
- Ideal for compact environments requiring space-saving design.

Velocity™ 200 Series: (2 versions)

- Form Factor: Full-height, ¾-length PCI-E cards
- Additional Features: Dual Slim SAS connectors for extended I/O options
- Targeted for environments demanding maximum connectivity and scalability.

Affordable and Scalable:

Pascaline Technology offers the Velocity™ Series cards at prices accessible to organizations of all sizes. Additionally, significant discounts are available for high-volume orders, making these solutions ideal for large-scale deployments.

Tailored for Diverse Markets:

- FinTech: Accelerate financial modeling, high-frequency trading, and risk analysis.
- Biotech: Power genomic sequencing, molecular simulations, and precision.
- General Research: Enable complex simulations and real-time data processing.
- AI and ML: Optimize training and inference workloads with industry-leading performance and low latency.
- Crypto currency: Maximize mining efficiency, ideal for emerging currency with algorithms not yet suited for replacement with ASIC accelerators.

A Message from Pascaline Technology, Inc.□

“We’re thrilled to unveil the Velocity™ Series FPGA Cards, which reflect Pascaline Technology commitment to pushing technological boundaries,” said Jaime Cummins, CEO of Pascaline Technology. “These cards combine cutting-edge AMD Xilinx UltraSCALE+ FPGA technology with

flexible memory, storage, and connectivity options to meet the unique needs of a wide range of industries. With their performance and affordability, we're empowering organizations to innovate without limits."

#### Availability

The Velocity™ 100 Series is available to ship now, while the Velocity™ 200 Series is accepting orders for shipment soon.

Pascaline Technology also develops custom designs of FPGA accelerators for customers ranging from Commercial, Government, Pharma, Biotech, Aerospace and Research areas. Contact [sales@pascalinetchnology.com](mailto:sales@pascalinetchnology.com) for inquiries about custom designs for your needs. Special small runs or high-volume runs can be supported.

For more information about the Velocity™ Series FPGA Cards and how they can accelerate your workloads, visit [pascalinetchnology.com](https://pascalinetchnology.com) or contact [sales@pascalinetchnology.com](mailto:sales@pascalinetchnology.com)

#### About Pascaline Technology inc.

Founded in 2022, Pascaline Technology is a leader in developing custom FPGA accelerator technologies. The company specializes in designing innovative hardware and software solutions that redefine computational performance, energy efficiency, and scalability.

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