



Do your image processing operations have bottlenecks?

Do you need to process large volumes of data?

Do you need to complete large projects in less time?

The GeoImaging Accelerator combines the power and precision of Graphics Processing Units (GPU-Based Hardware) with the accuracy and expertise of ProLines automated workflows, resulting in faster, better products.

By optimizing the automated ProLines workflows, traditional image-processing is elevated to industrial-strength production.

Performance improvements are the result of improved data handling, distributed multi-threaded processing and optimized processors.

## System highlights

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- ▶ GPU orthorectification and pansharpening with hybrid mosaicking
- ▶ Flexible GPU-based architecture
- ▶ Job processing system
- ▶ 4TB to 10TB per day of GeoImage processing
- ▶ Extendable system architecture

The benefits of ProLines workflows, including automation of repetitive and time-consuming tasks, consistent results, operational efficiency, reduced labour costs and shorter delivery cycles are enhanced multi-fold through hardware optimization. The GeoImaging Accelerator can reduce bottlenecks for product pre-processing.

## What is the GeoImaging Accelerator?

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The GeoImaging Accelerator combines high-performance computing with PCI Geomatics expertise to provide a significant improvement in speed and efficiency. By optimizing the automated ProLines workflows, traditional image-processing is elevated to industrial-strength production.

Performance improvements are the result of improved data handling, distributed multi-threaded processing and optimized processors. The result is a cost-effective image processing system that completes work in a fraction of the time.

## High-powered, but not high-risk

The Geomaging Accelerator is unique in bringing specialized geo-imaging processing to an open architecture and standardized hardware components. Whether configured as a desktop or rack-mount system, key components such as data storage and GPU processing can be updated to meet rising demands. By utilizing OpenMP™ and NVIDIA® CUDA,™ we offer increased flexibility for growth, plus the addition of new ProLines automated workflows.

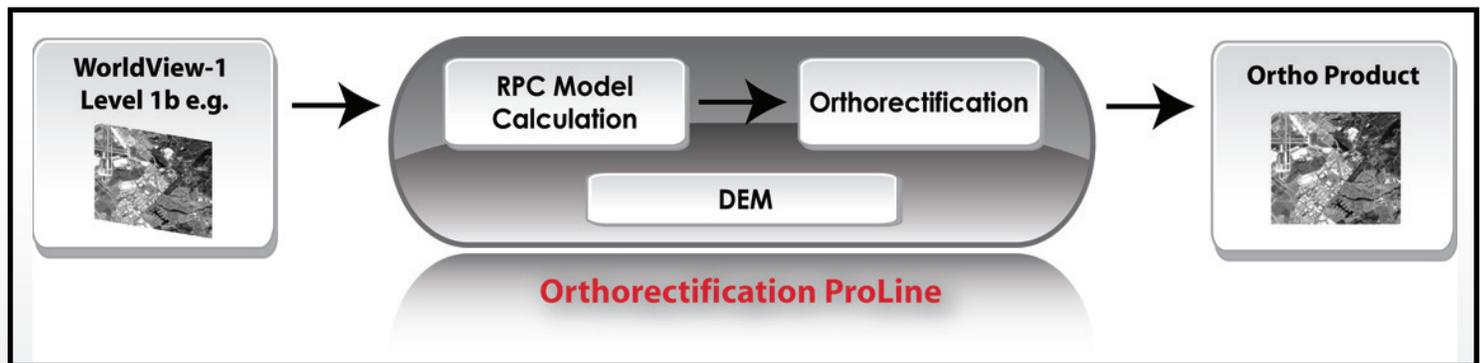
### Benefits of the Geomaging Accelerator

- ▶ Off-The-Shelf hardware means ease of installation and integration
- ▶ Job Control means reduced process management and development
- ▶ Automation means 24/7 processing and increased throughput
- ▶ High-speed processing means shorter production run and project durations

## Optimized ProLines technology

Is your lack of automation and production capacity costing you time and money?

PCI Geomatics can deliver technology solutions for high performance production systems for orthorectification, pansharpening and mosaic creation. Our solutions are configured to the clients' throughput requirements – using modern computer hardware.



## About PCI Geomatics

PCI Geomatics is a world-leading developer of hardware/software systems for geo-imaging solutions. Since 1982, we have specialized in remote sensing, digital photogrammetry, spatial analysis, cartographic production, automated production systems, image management and on demand mapping solutions. PCI Geomatics' advanced hardware/software systems address a wide variety of industry applications including the environment, agriculture, security and intelligence, aerospace & defense, and satellite receiving stations. We have the expertise and know-how to turn images into useful information.



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