Your Path to Deeper Insight - Solve Your Biggest Challenges Faster

Designed to help solve your biggest challenges faster and with greater efficiency, the Intel® Xeon Phi™ processor enables machines to rapidly learn without being explicitly programmed, in addition to helping drive new breakthroughs using high performance modeling and simulation, visualization and data analytics. And beyond computation, as a foundational element of Intel® Scalable System Framework (Intel® SSF), the Intel® Xeon Phi™ processor is part of a solution that brings together key technologies for easy-to-deploy and high performance clusters.

Silicon Mechanics is an open technology integrator of Servers, High-Performance Computing, Software Defined Storage, Cloud and Virtualization solutions.
For over 15 years, Silicon Mechanics has enabled organizations to deploy purpose-built compute and storage solutions with our customer focused approach. Offering customers deep technical experience, along with our defined build methodology, we partner with customers to architect, build, deploy and support flexible solutions from a large network oftechnology partners. Founded in 2001 and recognized as one of the fastestgrowing companies in the Seattle metropolitan technology corridor, SiliconMechanics is empowering innovative organizations as they transform the worldthrough open technology.

Intel® Xeon Phi Processor

Unlock deeper insights to solve your biggest challenges faster

Solve Challenges Faster

With up to 72 out-of-order cores, the new Intel® Xeon Phi™ processor delivers over 3 teraFLOPS (floating-point operations per second of double-precision peak while providing 3.5 times higher performance per watt than the previous generation.1 2 As a bootable CPU with integrated architecture, the Intel® Xeon Phi™ processor eliminates PCIe* bottlenecks, includes on-package high-bandwidth memory, and available integrated Intel® Omni-Path fabric architecture to deliver fast, low-latency performance.

	Cores	Ghz	INTEGRATED Memory	Fabric*	DDR4	Power
7290* Best Performance/Node	72	1.5	16GB 7.2 GT/s	Yes	384GB 2400 MHz	245W +15W fabric
7250 Best Performance/Watt	68	1.4	16GB 7.2 GT/s	Yes	384GB 2400 MHz	215W +15W fabric
7230 Best Memory BW/Core	64	1.3	16GB 7.2 GT/s	Yes	384GB 2400 MHz	215W +15W fabric
7210 Best Value	64	1.3	16GB 6.4 GT/s	Yes	384GB 2133 MHz	215W +15W fabric

Realize Unmatched Value

The Intel® Xeon Phi™ processor allows you to simplify code modernization and reduce programming costs by sharing code and a developer base with Intel® Xeon® processors. Standardizing on a unified Intel® architecture means you can use a single programming model for all your code, thereby reducing operational and programming expenses through a shared developer base and code reuse.

Maximize Future Potential

Take advantage of the Intel® Xeon Phi™ processor's common x86 architecture to get amazing utilization across any workload. The broad ecosystem of partners and robust roadmap you get by building on Intel® architecture allows for scalability, easy flexibility, and long-term support in compute, memory/storage, I/O, and software.

Groveport Platform: Bootable Intel® Xeon Phi™ Processor system

with integrated Intel® Omni-Path Fabric

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SERVERS • STORAGE • HPC

Consult Architect Build Support

Expert included.

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