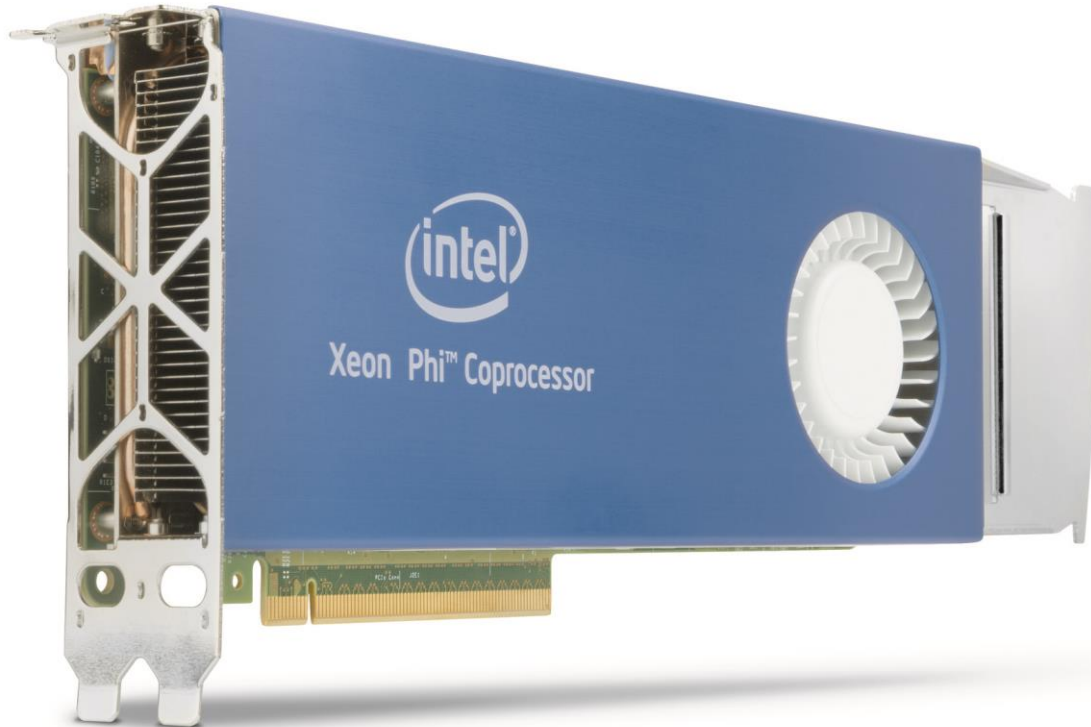


Overview

Intel Xeon Phi 3120AIB Workstation Compute Processor



Models

Intel Xeon Phi 3120AIB Compute Processor

F8W20AA

Introduction

The Intel Xeon Phi 3120AIB compute processor is a high performance computing coprocessor designed to accelerate highly parallel workflows. This coprocessor is available only on the HP Z820 as an orderable after-market option.

Features and benefits

Accelerate performance to up to 1 teraflops (double precision) or 2 teraflops (single precision) for compute-bound workloads, and maintain a unified hardware and software environment, with the Intel Xeon Phi 3120AIB coprocessor.

Use Intel Xeon processors and Intel Xeon Phi coprocessors together to optimize performance for x86 based parallel workloads. This actively-cooled compute solution is ready to deploy in the powerhouse HP Z820 Workstation.

Reduce the complexity of software development across a mixed Intel Xeon and Intel Xeon Phi environment by reusing existing code bases and maintaining a common set of programming tools and methods.

Compatibility

The Intel Xeon Phi 3120AIB Computing Processor is supported only on the HP Z820 workstation.

When adding the Intel Xeon Phi 3120AIB, place the card in slot 6 of the HP Z820 workstation. Only one Intel Xeon Phi 3120AIB board is supported in the HP Z820.

HP does not provide firmware/driver software packages for this option. Please visit <http://ark.intel.com/> for software drivers and firmware upgrades.

Overview

Service and Support

The Intel Xeon Phi 3120AIB has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Parts and labor are available on-site within the next business day. Telephone support is available for parts diagnosis and installation. Certain restrictions and exclusions apply.

Technical Specifications

Form Factor	Size: 247.9mm x 111.2mm Slots: Dual Slot Power Connectors: One 6-pin and one 8-pin Weight: ~1400 grams
System Interface	PCI Express Gen2 ×16
Video Outputs	None.
Memory	6GB GDDR5
Peak Memory Bandwidth	240 GB/s
Supported APIs	OpenCL 1.1, x86 Multi-thread toolsets
Supported Operating Systems	Windows 8 (64-bit) Genuine Windows 7 Professional (64-bit) Linux
Processor Cores	57 cores (Many Integrated Core -MIC architecture) Base Clock: 1.1 GHz
Power Consumption	~300 Watts Requires separate 8 pin and 6 pin PSU connector power source. Note 1: A 1125W PSU is required for any Intel Xeon Phi 3120AIB configuration on the Z820 Note 2: For software drivers and firmware updates, please visit http://ark.intel.com/

Summary of Changes

Date of change:	Version History:		Description of change:
May 16, 2014	Version 1	Changed	
		Added	Migrate to current template, add product photo
		Removed	
November 24, 2014	From v1 to v2	Change	Added new text to “Compatibility section” and added a new note to “Power Consumption”
		Remove	Remove text from sections “Processor Cores” and “Supported Operating Systems”

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