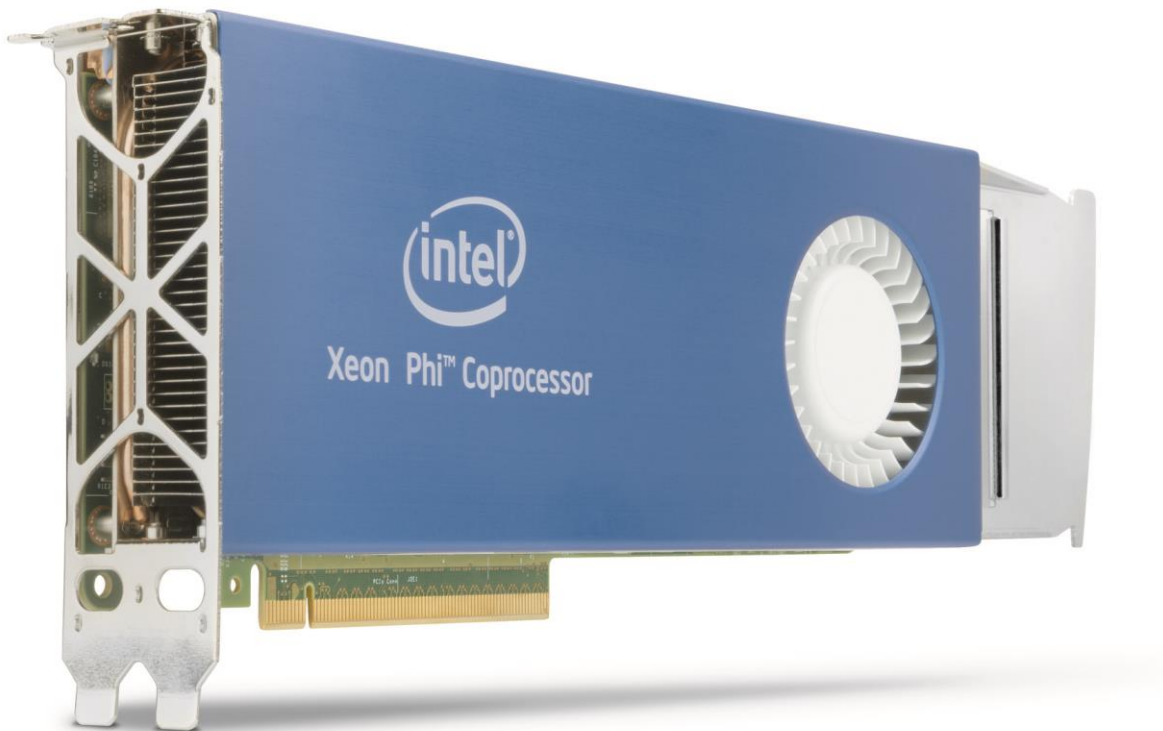


Intel Xeon Phi 3120AIB Compute Processor



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 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

Technical Specifications

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.

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. **Form Factor**

Size: 9.75 in x 4.37 in (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 x16
Video Outputs	None.
Memory	6 GB 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) Red Hat Enterprise Linux (RHEL) 5, 6 Desktop/Workstation (64-bit) SUSE Linux Enterprise Desktop 11 (64-bit)

HP qualified drivers may be preloaded or available from the HP support Web site:

<http://welcome.hp.com/country/us/en/support.html>

Novell SUSE Linux Enterprise drivers may also be obtained from: <ftp://download.nvidia.com/novell> or

<http://www.nvidia.com>

Processor Cores 57 cores (Many Integrated Core -MIC architecture)
Base Clock: 1.1 GHz
Turbo Boost Clock: Not Available

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

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Technical Specifications

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