

Overview

The Next-Generation AMD Opteron processor with AMD64 and AMD Virtualization

Dual-Core AMD Opteron™ Processor Model 2210/ 1.80 GHz, 2 MB L2 cache (1 MB per core)	RC403AA
Dual-Core AMD Opteron Processor Model 2212/ 2.00 GHz, 2 MB L2 cache (1 MB per core)	EW295AA
Dual-Core AMD Opteron Processor Model 2214/ 2.20 GHz, 2 MB L2 cache (1 MB per core)	EW296AA
Dual-Core AMD Opteron Processor Model 2216/ 2.40 GHz, 2 MB L2 cache (1 MB per core)	EW297AA
Dual-Core AMD Opteron Processor Model 2218/ 2.60 GHz, 2 MB L2 cache (1 MB per core)	EW298AA

Introduction

Next-Generation AMD Opteron™ processors with Direct Connect Architecture introduce several new features including quad-core upgradeability, AMD Virtualization™ (AMD-V™), and energy efficient DDR2 memory. In addition, Next-Generation AMD Opteron processors are designed to advance AMD's performance-per-watt capabilities and leverage the proven technologies introduced in 2003 with first-generation AMD Opteron processors.

The 64-bit Benefits of AMD Opteron

When a 64-bit AMD Opteron processor is executing a 64-bit application, it enables the following additional features:

- Runs existing installed base of 32-bit applications and operating systems at peak performance, while providing a 64-bit capable migration path
- Designed to enable 64-bit computing while remaining compatible with the vast x86 software infrastructure
- Enables a single architecture across 32- and 64-bit environment

Features of AMD Virtualization™ (AMD-V™)

- Hardware assisted AMD Virtualization™ and Direct Connect Architecture provide a balanced approach to help improve virtualization performance, enabling more virtual machines to run per server
- AMD-V™ reduces overhead by selectively intercepting instructions destined for guest environments
- Direct Connect Architecture helps guests run at near native speed
- Virtualization-aware integrated memory controller provides efficient isolation of virtual machine memory

Compatibility

The AMD Opteron™ 2000 series processors are compatible with HP xw9400 Workstations only.

NOTE: Not all models available in all regions.

Service and Support

The AMD Opteron™ 2000 series processor has a one-year limited warranty or the remainder of the warranty of the HP product in which they are installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Certain restrictions and exclusions apply.

Technical Specifications

Processor Speeds	Model 2210/ 1.80 GHz	1 MB L2 cache (each core)
	Model 2212/ 2.00 GHz	1 MB L2 cache (each core)
	Model 2214/ 2.20 GHz	1 MB L2 cache (each core)
	Model 2216/ 2.40 GHz	1 MB L2 cache (each core)
	Model 2218/ 2.60 GHz	1 MB L2 cache (each core)
	Model 2220SE/ 2.80 GHz	1 MB L2 cache (each core)

System Bus Frequency 1 GHz Hypertransport Bus

Maximum Virtual Memory Up to 16 exabytes

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