

WHITE PAPER

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CONTENTS

System Memory Support Overview	3
Additional Resources.....	3

System Memory Support

for Compaq Evo D300 and D500 Series of Personal Computers and Evo Workstation W4000 Models

This document provides a brief overview of the system memory support on Compaq Evo™ Desktop D300 and D500 Series and on Evo Workstation W4000 Series products based on the Single Data Rate (SDR) implementation of the Intel i845 chipset. This paper is intended for customers, vendors, value-added resellers, and Compaq Field Systems Engineers.

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SYSTEM MEMORY SUPPORT OVERVIEW

The Evo Desktop D300 and D500 Series and Compaq Evo Workstation W4000 Series products based on the SDR implementation of the Intel i845 chipset support industry-standard, 168-pin, PC133 Single Data Rate (SDR) Synchronous Dynamic Random Access Memory (SDRAM) modules when populated in any combination of the three available SDRAM slots. The following information provides the system memory feature list for these Compaq platforms.

- Support for unbuffered PC133 (133MHz) SDR SDRAM only.
- Support for non-ECC (64b wide) or ECC (72b wide) PC133 SDRAM.
 - Does **not** support mixing of ECC and non-ECC PC133 SDRAM
- Support for maximum of 3 double-sided (total of 6 rows) PC133 SDRAM modules.
- Support for 64Mb, 128Mb, 256Mb and 512Mb technologies for x8 and x16 devices.
- Support for minimum of 32MB (4M x 16b x 4 devices x 1 row) using 64Mb technology.
- Support for maximum of 3GB (64M x 8b x 8 devices x 6 rows) using 512Mb technology.
- Support for CAS Latency 2 and/or CAS Latency 3 PC133 SDRAM.
 - System BIOS will configure the chipset for CAS Latency 3 when mixing these two types of memory.

ADDITIONAL RESOURCES

Additional Compaq system memory information can be found at the following URLs:

- “Memory Technology Evolution: An Overview of System Memory Technologies”
<http://www.compaq.com/support/techpubs/whitepapers/TC010603TB.html>
- “Why Buy Compaq Memory”
<http://www.compaq.com/support/techpubs/whitepapers/14pr-0401a-wwen.html>