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Compaq ProLiant ML330e 1.0GHz Processor Models

Service Overview

Abstract: This white paper describes two new Intel Pentium III 1.0GHz processor models for the Compaq ProLiant ML330e Series of servers. Information provided includes features, models, spare part numbers, and service considerations for the product.

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Compaq ProLiant ML330e Processor Models Service Overview© 2001 Compaq Computer Corporation

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Product Description

This white paper announces two new 1-GHz models for the Compaq ProLiant ML330e Series of servers. These new ProLiant ML330e Series models feature an Intel Pentium III 1.0GHz processor with Flip-Chip Pin Grid Array (FC-PGA) technology and 256KB of Level 2 (L2) ECC cache memory.

The system also has an integrated dual channel Ultra ATA 100 controller that can provide a maximum internal storage capacity of 160GB by using four 40GB one-inch ATA/100 drives (two internal drive bays and two removable media bays).

Features

- 1.0GHz Pentium III Processor with FC-PGA technology
- Integrated 256KB of Level 2 cache memory (full speed)
- 64MB of PC133-MHz ECC registered SDRAM DIMM, expandable to a maximum of 2GB
- Compaq NC3163 Fast Ethernet PCI 10/100 Wake on LAN (embedded) NIC
- Compaq Integrated Dual Channel Ultra ATA 100 Controller
- 20-GB Ultra ATA/100 7200 rpm hard drive (not hot-pluggable) (on selected models)
- Maximum of 160GB of internal storage
- Seven drive internal drive bays:
 - Four 5.25" removable media bays, one filled with 32X or 40X high-speed IDE CD-ROM drive
 - Three 3.5" drive bays, one filled with 1.44MB diskette drive
- Six expansion slots (5 available):
 - Two 64-bit PCI
 - Four 32-bit PC (3 available, one contains the Server Feature Board).
- Two USB ports
- Integrated ATI Rage XL video controller
- Pre-Execution Environment (PXE) support—enables remote configuration and installation of operating system
- ROM-Based Setup Utility (RBSU) (F9 setup) for system configuration—simplifies server setup and enables support of the Compaq SmartStart Scripting Toolkit
- 5U tower configuration (not rack-mountable)

For more information about features for the ProLiant ML330e series of servers and the CTO options, refer to:

- <http://www.compaq.com/products/servers/proliantml330e/index.html>
- <http://www.compaq.com/products/servers/platforms/options.html>

Models

Table 1 lists configurations for the new models:

Table 1: System Models

Model	Part Number	Config. Code	Processor	Hard Drive
ML330eT01 P1000-256KB 64-MB	251761-001	JKF9	1.0GHz	None
ML330eT01 P1000-256KB 64-MB 20-GB ATA*	251761-002	KDP1	1.0GHz	20GB* *

*Advanced Technology Attachment (ATA)

**Not hot-pluggable

Option Kits

There are no option or upgrade kits available to upgrade the 933MHz and 800MHz models. To upgrade you must purchase either of the 1-GHz models.

Spare Parts

Ordering information for individual spare processors with heatsinks, system boards, and the hard drive for these models is shown below:

Table 3: Spare Part Numbers

Description	Spare Part Number
Pentium III Processor, 1GHz/133 with Heatsink	217827-001
Heatsink fan assembly (for 1GHz model only)	220997-001
ATA Module	230541-001
System I/O	230540-001
Cable kit, ATA	231702-001
Hard drive 20GB, ATA/100 (Not hot-pluggable)	232009-001

For a full listing of spare parts for both the ProLiant ML330 and the ProLiant ML330e Series of servers, refer to:

- ProLiant ML330e/ML330 Server Maintenance and Server Guide
- Service Quick Reference Guide: Server Options (listed as Quick Reference Guide: Server Options on the website)

These documents are available at:

<http://www.compaq.com/support/servers/ProLiantML330.html>

Operating Systems

The ProLiant ML330e supports the following operating systems:

- LINUX products (RedHat, SuSE)
- Microsoft 2000 Small Business Server
- Microsoft Windows 2000
- Microsoft Windows NT Server
- Novell NetWare Small Business Suite 5.1

For a more complete listing and current listing of supported operating systems and versions, refer to the following Compaq website:

<ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>

Drivers

Current versions of drivers supported by the various operating systems can be found at the Server Software Download Center at:

www.Compaq.com/support/files/server/us/index.html

Manageability & Utilities

The ProLiant ML330e ships with the following:

- Compaq Insight Manager™ and Compaq Insight Manager XE™
- Compaq SmartStart™
- Array Configuration Utility (ACU and ACU-XE) with Smart Array controllers
- Compaq Management Agents
- Automatic Server Recovery (ASR)
- Drive Parameter Tracking and Dynamic Sector Repairing (both with Smart Array Controller)
- Pre-Failure Warranty (covers processors, memory, and disk drives)

Service Considerations

There are no unique service considerations for these models; however these warnings warrant repeating:

- Failing to flash the ROM before installing a new processor results in system failure. The most recent Compaq ROMpaq can be downloaded from:
<http://www.compaq.com/support/files/server/us/index.html>
- Never use or reinstall a used heatsink after removal. The thermal material on the bottom of the heatsink is for one-time use only. Used heatsinks do not provide proper heat dissipation and can cause system failure.

References

For information on servicing and troubleshooting the Compaq ProLiant ML330e Server refer to the:

- *Compaq ProLiant ML330e/ML330 Server Maintenance and Service Guide* Fourth Edition (March 2001) Part Number 176670-001 or spare part number 176670-001.
- *Compaq ProLiant ML330e/ML330 Server Setup and Installation Guide* Second Edition (March 2001) Part Number 173868-002.
- *Compaq ProLiant ML330 Troubleshooting Guide* First Edition (April 2000) Part Number 174799-0012.