Compaq ProLiantÔ ML530 Server Overview

Description

The ProLiant ML530 server is built on the strength of the ProLiant family of servers. In addition to the new 1GHz processor, the ProLiant ML530 server has a completely redesigned 7U chassis for maximum system expansion and serviceability. The increased available system memory and internal mass storage provide maximum expansion room. Redundancy and hot-plug features ensure uninterrupted productivity and availability from the server.

New Models

The following table provides the part numbers and configuration codes for the updated ProLiant ML530:

Table 1: Part Numbers and Configuration Codes

Server Model	Part Number	Configuration Code
ML530T01-X1000-256	161152-xx1	FPW1
ML530R01-X1000-256K	161153-xx1	FPX1

New Features

Key features for the new models of the ProLiant ML530 server include:

- 1-GHz Intel PIII Processor with 133-MHz, 256-KB cache, front-side bus (FSB)

- Eight DIMM sockets that support memory up to 4 GB using 512-MB DIMMs

- Eight PCI Slots:

  - Two 64-bit, 66-MHz

  - Five 64-bit, 33-MHz

  - One 32-bit, 33-MHz

- 450-watt hot-pluggable power supply with optional hot-pluggable redundant power supply (2 + 1 redundancy)

- Tool-free design for easy access to drives and other internal components

- Mass internal storage of 436.8 GB (with optional second drive cage installed)

- New chassis design with a pull-out drawer for ease of service—drawer dimensions: 20 x 12.8 x 26.5 inches (50.8 x 32.5 x 67.3 centimeters)

- Up to 16 drive bays (12 hot-pluggable hard drive bays, CD-ROM drive, diskette drive, and two removable media bays)

- Compaq Insight Manager, SmartStart, Integrated Remote Console (IRC), and Automatic Server Recovery-2 (ASR-2)

■   High-speed IDE CD-ROM drive

Switch Settings

Table 2 lists the new SW1 settings for the 1.0GHz processor.

Table 2: SW1 Switch Settings

Switch	Positions			
Number	S2	S3	S4	S5
SW1	OFF	ON	OFF	OFF

Options

Table 3 describes the option kit required to upgrade existing models of the ML530:

Table 3: Upgrade Options

Description	Model	Part Number
Processor Option Kit	Pentium III Xeon 1.0GHz 256k	128283-B21

Table 4 lists the new options supported by all models of the ProLiant ML530:

Table 4: New Options

Description	Part Number
Smart Array 5302/32 Controller	166207-B21
Smart Array 5302/64 Controller	124992-B21
Smart Array 5304/128 Controller	158939-B21

New Spares

Table 5 lists the new spare parts used in the ProLiant ML530:

Table 5: Spare Part Numbers

Description	Part Number
Chassis, 7U, rack-mount model	159316-001
Chassis, 7U, tower model	159315-001
Drive cage with backplane board, 6-bay	159313-001
Power cable kit	159319-001
Power supply backplane board, 3-bay	159314-001
Power switch with cable	161659-001
Signal cable kit	159320-001
System board with tray and cage	159301-001

OS Software Supported

For a complete and up-to-date listing of supported OSs and versions, visit the Compaq OS Support Matrix FTP site:
ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf

OS Drivers

For an up-to-date listing of the latest drivers available for the new 1-GHz models of the ProLiant ML530, visit the Compaq website:

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

New Versions of Required Utilities

SmartStart 4.9

SmartStart 4.9 Assisted OpenServer Install

Starting from SS4.9, the SmartStart assisted OpenServer install has been changed. In order to install OpenServer, the user has to input boot strings to specify which driver should be loaded for the primary controller. Without the right boot string, OpenServer may not be able to detect the root disk.

Following are the boot strings for different controllers:

- Adaptec controllers:(Poseidon and Arsalan)

  ```
  defbootstr link=ad160 hd=Sdsk Srom=wd(0,0,0).
  ```

- Maxwell controller: (Smart Array 5300)

  ```
  defbootstr link=ciss hd=Sdsk Srom=wd(0,0,0).
  ```

- IDA controllers:(Smart 2/E, Smart 2/P, Smart 2/DH, Smart 2/SL, Smart Array 221, 3200, 3250ES)

  ```
  defbootstr disable =ida link=ida hd=ida0 Srom=wd(0,0,0).
  ```

- ROC controllers (Embedded ROC, Smart Array 4200, 4250ES and Smart Array 431)

  ```
  defbootstr link=clad hd=Sdsk Srom=wd(0,0,0).
  ```

- Compaq SymBios SCSI Controllers(825, 875, 876, 895, 896 and non intelligent ROC):

  ```
  defbootstr link=cha hd=Sdsk Srom=wd(0,0,0).
  ```

SmartStart 4.9 Assisted Install Procedure for SCO OpenServer 5

1. Boot machine and insert the SmartStart 4.9 or later.
2. Follow the install procedure.
3. Create BTLD diskette during SS Interview process.
4. Remove floppy disk and CDROM when the system requests this action.
5. Insert SCO 5.05 CD when system requests this action.
6. The system reboots.
7. At the SCO5 boot prompt, enter the necessary boot string based on the boot controller.
8. Insert the BTLD diskette when prompted and continue with the installation.
9. During hard disk setup, select **Interactive fdisk** option to preserve the system partition created by SmartStart.

New Installation/Repair Procedures

None

Service Considerations

None