
This portion of README file provides information specific to the Prioris MX 6200 server.

6.1 Server-Specific Contents

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7.0 QUICK LAUNCH SOFTWARE

7.1 Minimum BIOS & System Configuration Utility (SCU) Levels

This version of Quick Launch requires the following minimum system software:

BIOS: 2.00

SCU: 2.00

BIOS and SCU updates are available on the BBS, refer to section 1.0.

7.2 BIOS Upgrade Jumper

The "BIOS Upgrade" jumper (SW1-1) on the main logic board is shipped with a default setting of Enabled (on) to allow the BIOS to be upgraded from Quick Launch.

To prevent unauthorized personnel from loading a new server BIOS, you must set this switch to Disabled (off). Loading a new server BIOS might allow someone to override other server security features or introduce a virus into your server.

8.0 OPERATING SYSTEMS

8.1 NetWare 3.12

8.1.1 NetWare 3.12 Single Processor Installations

For NetWare 3.12 installations on 1P systems, using either the Express installation or Conventional installation, you must run the SCU to disable the APIC & MP Table parameter in the Advanced Control Group. Neglecting to disable this parameter may result in "Spurious Interrupt" messages on the NetWare server console.

This parameter will need to be reset to its default value (MP1.4) prior to installing any other operating system on this system.

9.0 SERVER CONFIGURATION

9.1 Integrated Ethernet Controller (Digital 2114X)

The NetWare and SCO Unix drivers for the integrated Ethernet controller (Digital 2114X) default to the twisted-pair (RJ-45) connector.

To configure the ThinWire (BNC) or Thickwire (AUI) media for NetWare ports, it is necessary to add the following keyword to the command line used to load the driver:

MEDIA=BNC or MEDIA=AUI

Examples:

LOAD DC21X4 SLOT=10001 MEDIA=BNC
(for ThinWire connections)

LOAD DC21X4 SLOT=10001 MEDIA=AUI
(for thickwire connections)

For NetWare, the media type will need to be specified when the driver is loaded.

For SCO Open Desktop, the driver space.c file will need to be modified to specify the media port.

In SCO OpenServer 5.x, the port can be switched to the AUI port or the BNC connector through the "netconfig" utility. Follow the example below:

1. Run "netconfig."
2. Press Tab and down arrow key to highlight "HW Digital DC2114X PCI Ethernet and Fast Ethernet Controller." Then, press the space bar to mark the entry with "*".
3. Press Tab to go back to "Hardware," press Enter and down arrow to "Modify hardware configuration."
4. Press Tab four times to "Advance options" in the upper-right corner of the screen.
5. The default media setting is SROM_default. If desired, you can modify this setting by pressing the down arrow key until your desired port is highlighted.
6. Exit the utility gracefully. The kernel will rebuild. On the next boot, the hardware display will read as follows:

For BNC: type=dc2114x/BNC addr=xxxxxxx

For AUI: type=dc2114x/AUI addr=xxxxxxx

9.2 Ultra SCSI Configuration Restrictions and Procedure

Your Prioris MX 6200 Server has been designed such that its Small Computer Systems Interface (SCSI) subsystem is capable of operating in Ultra SCSI mode (also known

as Fast20 mode).

To operate in Ultra SCSI mode, your system must be configured with any of the FR-CDCBA-CA, FR-CECAA-CA, or FR-CFCBA-CA Ultra SCSI drives; and your system must be configured for Ultra SCSI operation. Ultra SCSI increases the synchronous data transfer rate; however, it imposes stricter configuration and bus-length limitations than Fast SCSI. Performance increase at a system level is dependent upon the application.

9.2.1 Ultra SCSI Configuration Restrictions

Your Prioris MX 6200 Server is shipped from the factory configured as an Ultra SCSI system; however, the following Ultra SCSI configuration restrictions apply:

1. Attaching the server to an external storage cabinet, using the external wide SCSI cable is not a supported Ultra SCSI configuration.

[This cable is shown in Figure 7-6 and Figure 9-1 (item C) in the Prioris MX 6200 Server System Reference Manual.]

The server must be reconfigured to no longer operate at Ultra SCSI speed prior to operation as described in the section that follows.

2. Installing additional "non-hot swap" hard disk drives in the upper bay area, as described in the Installing Optional Drives section of the Prioris MX 6200 Server System Reference Manual, is not a supported Ultra SCSI configuration. The server must be reconfigured to no longer operate at Ultra SCSI speed prior to operation as described in the section that follows.

3. Replacing or modifying the factory-installed cable configuration is not a supported Ultra SCSI configuration and may produce unpredictable results. The system must be reconfigured to no longer operate at Ultra SCSI speed prior to operation as described in the section that follows.

4. Using non-Ultra disk drives in the "hot-swap" drive bays is a supported Ultra SCSI configuration; however, the maximum Ultra SCSI bus utilization will not be achieved if the non-Ultra devices are active.

9.2.2 How to Configure the System to Operate in non-Ultra SCSI Mode

Use the following procedure:

1. Boot the system.

2. When the message "Press Ctrl/A for SCSI Select Utility," is displayed, press Ctrl/A.
3. Select "Configure/View Host Adapter Settings."
4. Select "Advanced Configurations."
5. In the "Support for Ultra SCSI Speed" option, select "Disabled."
6. Press the Escape (Esc) key three times.
7. At the "Exit Utility?" prompt, select "Yes."
8. Press any key to reboot.

9.2.3 Setting Termination of On-Board SCSI

The MX 6000 has an on-board SCSI controller (Adaptec 7880) with two types of SCSI connectors -- a wide SCSI connector (68 pins) and a narrow SCSI connector (50 pins). They are in same SCSI bus. The narrow connector always connects to the CD-ROM drive. The wide connector may either connect to the storage backplane for a non-RAID configuration or to a Mylex RAID controller for a RAID configuration.

Use the following procedure to set the bus termination for the on-board SCSI:

1. When the Adaptec BIOS banner appears during the boot process and before the end of the device information, press Ctrl-A.
2. Select the first Bus:Device listed.
3. Select "Configure/View Host Adapter Settings."
4. Select "Host Adapter SCSI Termination" and set the low/high switches:

	Termination	
	Low	High
Wide cable not connected to backplane	On	On
Wide cable connected to backplane	Off	On

9.2.4 Setting ID of On-Board SCSI

Setting SCSI ID of the CD-ROM to "5" is a quick solution to boot from Quick Launch, but if another CD-ROM or a tape drive is installed as SCSI ID 6, Quick Launch cannot boot the system

again.

9.3 EISA Master Request Delay Issue

According to an Intel chipset errata, certain EISA cards that use Intel BMIC 82355 chips need to delay one cycle for the chipset to work correctly. The MX 6200 provides jumpers (J30 and J31) for EISA slots 4 and 5.

If the EISA card has this chipset, move the jumper from the 1-2 position to the 2-3 position.

(The default setting is pins 1-2.)

Note: The Proteon P1990+ Token Ring network card must be installed in either slot 4 or 5, and you need move the jumper from the 1-2 position to the 2-3 position for the slot in which the card is installed.

9.4 CPU Compatibility

At this time, this Prioris server uses only two production steppings of the Pentium Pro chip; therefore, there are no known issues about mixing them in a multiprocessor environment.

9.5 Locking Resources

The SCU allows you to lock "saved" resources for any EISA/PCI expansion board installed in the server.

If you are adding options, make sure you check to see if the resources are locked. Use the Advanced Menu in the SCU.

NOTE: Every time you change settings in the SCU, you need to save them. To change a locked resource, unlock it, make the change, then save and exit the SCU. Reboot and then lock the resource, if desired.

You can only lock resources that have been previously saved.

10.0 Prioris MX 6200 SYSTEM REFERENCE MANUAL CORRECTIONS

The following are changes to the manual:

Installing Disks and Tape Drives: (Pages 7-8, 7-10)

Step 5: The drive brackets (item A in Figures 7-2 and 7-3) are shipped separately in the upper tray of the shipping box with the documentation. Step 5 in the instructions should be changed to:

5. Attach two drive brackets (74-51977-01) to the device.

Main Logic Board Switch Settings: (Page A-8)

SW1-1 "BIOS UPGRADE" -- The default position is ENABLED,
SW 1-1 ON.