
Hewlett-Packard
Network Server Division
HP NetServer Ip 1000r
Frequently Asked Questions

HP NetServer lp 1000r Frequently Asked Questions

- Q1.** Which Processors are supported in the NetServer lp 1000r
- A1.** The NetServer lp 1000r supports Intel Pentium III 866 MHz, P III 933 MHz and PIII 1 GHz processors.
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- Q2.** What is new on the front panel of the NetServer lp 1000r?
- A2.** *The front panel from left to right has:*
- Reset button*
This switch is to reset the NetServer.
 - Over temperature LED*
This LED indicates green when normal and amber for warning over temperature conditions.
 - Fan Fail LED*
This LED indicates green when normal and amber for warning one of the fans may be turning too slowly.
 - Disk 0 LED*
Off when no drive present, steady green when drive present, steady red when drive failure detected, alternating green/red at 1 Hz when drive is being rebuilt and alternating green/red at 3 Hz when drive is being identified.
 - Disk 1 LED*
Off when no drive present, steady green when drive present, steady red when drive failure detected, alternating green/red at 1 Hz when drive is being rebuilt and alternating green/red at 3 Hz when drive is being identified.
 - Disk 2 LED*
Off when no drive present, steady green when drive present, steady red when drive failure detected, alternating green/red at 1 Hz when drive is being rebuilt and alternating green/red at 3 Hz when drive is being identified.
 - SCSI Activity LED*
Green LED indicator flashes during any SCSI disk drive activity.
 - The Power ON/Off/Sleep button*
The power button acts as both a button for transitioning the system between the off and on states, and a button for transitioning the system between the on and sleep state
 - Power Indicator LED*
This green LED indicator remains steady on when the system is running, and off when the system is off. This indicator blinks once per second in sleep mode.
- Q3.** What are the available ports and connectors on the rear of the NetServer lp 1000r

- A3.**
- Dual RJ-45 LAN connector and two LEDs to indicate LAN speed and link
 - Serial Port A
 - Embedded Remote Management Port or Serial Port B
 - Parallel Port (ECP/EPP)
 - Mouse Port
 - Keyboard Port
 - USB ports
 - Monitor Port (SVGA)
 - Power Connector
 - External SCSI port
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Q4. What IDE devices come bundled in the NetServer lp 1000r?

A4. The NetServer lp 1000r comes bundled with a slim IDE CD-ROM drive. IDE hard drives are not supported on lp 1000r.

Q5. How many channels are on the embedded Ultra 3 SCSI controller?

A5. The Ultra 3 SCSI controller in the NetServer lp 1000r has two channels. Both Channel A and Channel B have cables attached to them. Channel B is used to connect to external port to an external mass storage solution. Channel A is connected to *the Hot Swap* hard disk cage.

Q6. Are there any common tray internal devices support on the netserver lp 1000r?

A6. No common tray internal devices supported on lp 1000r

Q7. What type of SCSI controller is embedded on the system board of the NetServer lp 1000r?

A7. The NetServer lp 1000r has an embedded dual-channel Ultra 3 Wide PCI SCSI controller. Channel A is used for cabling the to hot swap hard disk cage. Channel B is connected to an external port for external SCSI devices.

Q8. What is the boot priority for bootable devices in the NetServer lp 1000r?

- A8.**
1. IDE CDROM Drive
 2. Floppy Disk Drive
 3. Embedded SCSI A
 4. Embedded SCSI B
 5. PCI
 6. Network Connection
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Q9. What is the kind of memory is used in the lp 1000r? What is the maximum memory configuration in the lp 1000r?

A9. The lp 1000r uses ECC memory; 72 bit wide, 168-pin PC 133Mhz SDRAM HP DIMMs. lp 1000r has 4 DIMM slots. The lp 1000r ships with HP 256MB (D8265A) and also supports 128MB (D8265A), 512MB (D8267A) and 1GB (D8268A). The maximum memory configuration is 4 GB. (4 x D8268A). Use of HP memory is strongly recommended.

Q10. Describe the internal mass storage configuration options?

A10.	Interface	Max number of devices supported	Installed devices and addresses
	IDE	1	Factory installed slim CD-ROM drive
	Floppy	1	Factory installed slim floppy drive in shelf 4
	UW U3 SCSI Channel A	Up to 3* Hot – Swap HDD slot 1,2,3 Low-Profile (LP)	Embedded SCSI controller (address=ID 7)

*Both SCSI channels (A and B) can support up to 14 devices, however there are only enough bays to plug 3 Hot-Swap HDD. Channel B is to install external SCSI devices.

Q11. What utility is used to configure the embedded SCSI controller configuration?

A11. The BIOS has the SCSI configuration utility. SCSI configuration is used for configuring embedded SCSI controllers and devices connected to the SCSI controllers. Features provided using this utility include the option of reassigning the designation of channel A and B, verify or modify SCSI host adapter settings, to low-level format SCSI disks, or verify SCSI media.

Q12. Are High Voltage Differential (HVD) devices supported in the NetServer lp 1000r?

A12. High Voltage Differential SCSI devices are not supported on the embedded SCSI bus. The devices will be damaged if connected to the embedded SCSI bus.

Q14. What are the supported modes of racking NetServer lp 1000r?

A14. Lp 1000r ships with rails (similar to LPr) to be mounted on HP rack or 4 post racks. Refer to chapters 7, 8 and 13. A separate set of mounting brackets are provided for cantilever mounting and flush mounting on a Telecommunications (Telco) rack.

Q16. What is the maximum number of PCI cards supported by NetServer lp 1000r?

A16. It supports one 64-bit full size PCI card.

Q18. Which Disk Array Controller (NetRAID) card is supported in the NetServer lp 1000r?

Q18. HP recommends ONLY using the NetRAID 1Si (D2140A) PCI board in the NetServer lp 1000r.

Q19. What are the supported video display modes? Is an IRQ assigned by default to embedded video?

A19.	Resolution	Max Refresh Rate @	Max Refresh Rate @	Max Refresh Rate @
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	256 Colors	65K Colors	16.7M Colors
640x480	200Hz	200Hz	200Hz
800x600	200Hz	200Hz	160Hz
1024x768	150Hz	150Hz	Not Available
1152x864	120Hz	120Hz	Not Available
1280x1024	100Hz	Not Available	Not Available
1600x1200	76Hz	Not Available	Not Available

By default the IRQ for video is disabled.

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- Q20.** What are the supported Network Operating Systems (NOS) on lp 1000r?
- A20.** The lp 1000r supports Microsoft Windows 4.0, Microsoft Windows 2000, Red Hat Linux, The automated NOS install using the HP NetServer Navigator CD is supported on Microsoft Windows NT 4.0. Please also refer to Datasheet for more updated list of supported NOS.
- Q23.** What additional details are available on the exact purpose of the two LAN adapter LED's? i.e. Link and Activity, what behavior should be expected?
- A23.** SAME as the standard NIC card LEDs. Green link light indicates connectivity and green activity flashes for activity.
- Q24.** Does the system support Wake-on-LAN?
- A24.** Yes, the system does currently support wake-on-LAN functionality only on LAN A.
- Q25.** Sometimes after upgrading the system BIOS certain BIOS functions do not work properly.
- A25.** After upgrading the BIOS, enter the BIOS setup screen by pressing F2 during POST and then press F9 to restore the BIOS defaults. Restart the system. If the system fails to boot to an operating system it is probably because of the hard disk boot order. Enter setup again, correct the hard disk the boot order and reboot.
- Q26.** What video drivers are needed for windows NT and Windows 2000 support?
- A26.** The driver will be included on our L.20 Navigator CD. The drivers will also be available on our external web site.