

ASUS® AP1700

Intel® Xeon Tower/5U Rackmount Server
with 533MHz FSB support



User's Manual

System Package Contents

The following checklist enumerates the components included in the standard system package.

- 1) ASUS AS-35 Tower/5U Rackmount chassis
- 2) ASUS PR-DLS533 motherboard
- 3) 500W+500W redundant power supply
- 4) Backplane board (BP6LS-AS35)
- 5) CD-ROM drive (1 piece)
- 6) Floppy disk drive (1 piece)
- 7) Special heatsink with fan assembly (2 sets)
- 8) Hot swap SCSI hard disk drive tray (6 units)
- 9) AC power cord (2 pieces)
- 10) Support CD that includes drivers, utilities, ASUS System Monitoring Agent (ASMA) with the ASUS Server Web-based Management (ASWM)
- 11) Trend Micro Server Protect anti-virus software full user version CD enterprise edition
- 12) Motherboard user guide
- 13) System user guide
- 14) LSI SCSI controller user guide
- 15) ASMS (ASMA + ASWM) user guide
- 16) chassis roller wheels (4 sets)
- 17) Keys x 2
- 18) Screws and labels

Optional:

- 1) ASUS AS-35 5U rackmount rail kit
- 2) LSI MegaRAID 320-0 Zero channel RAID card



If any of the above items is missing, contact your dealer.

Chapter 1

System Overview

This chapter describes the general features of the AP1700 system server. It includes sections on front panel, rear panel and internal specifications.

1.1 System Features

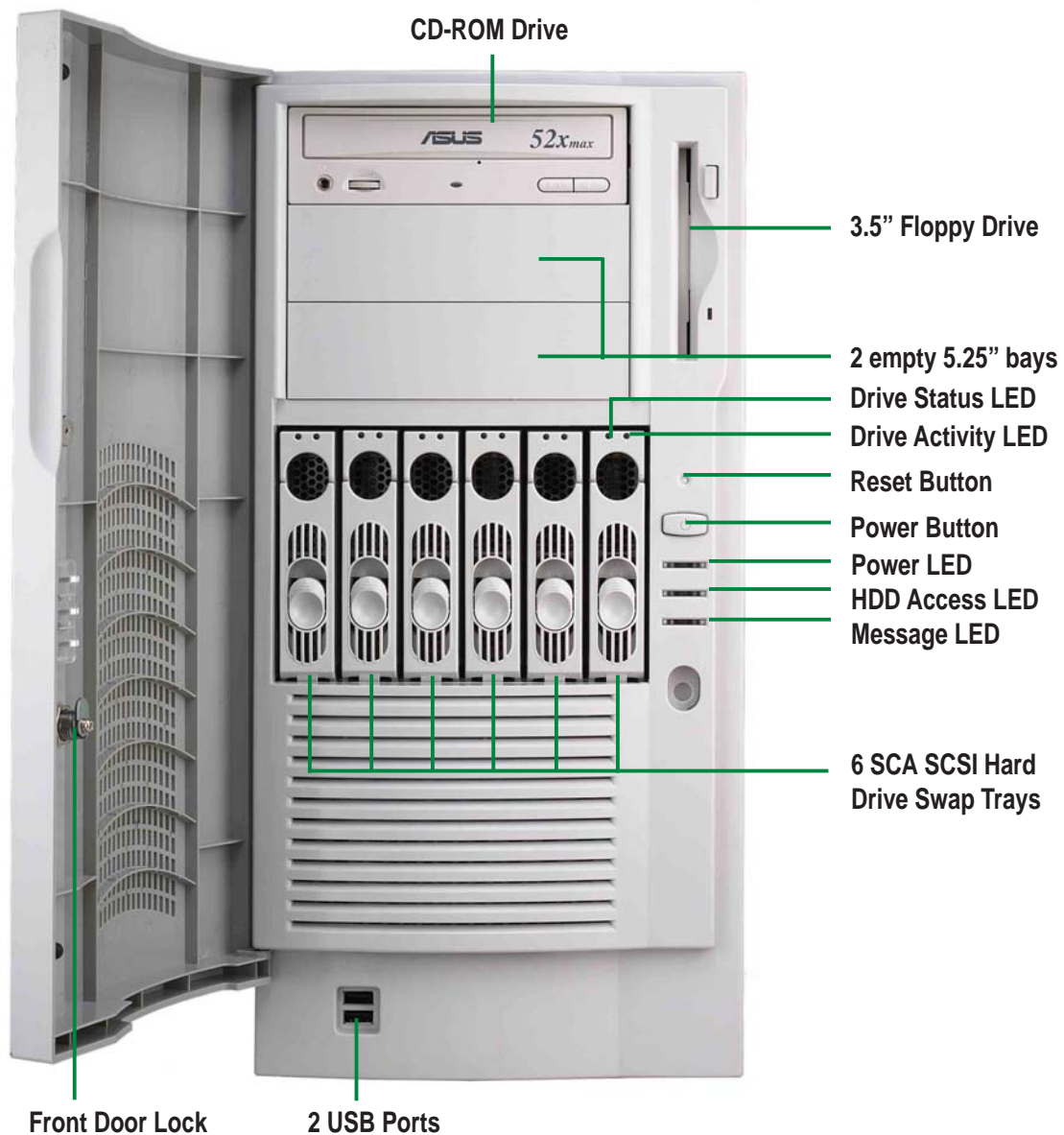
The ASUS AP1700 server is a stylish server system featuring the ASUS PR-DLS533 motherboard. The server supports the Intel® Xeon™ processor in a 604-pin socket, and includes the latest I/O, LAN, and video technologies through the chipsets embedded on the motherboard.

The following are highlights of the server's many features:

- **Chassis:** Pedestal or rackmount 5U with removable front door bezel and chassis foot stand or roller-wheels.
- **Motherboard:** ASUS PR-DLS533
- **Chipset:** RCC Grand Champion LE Server 3.1 (GCLE), RCC Champion South Bridge 5.0 (CSB5), RCC Champion I/O Bridge 2.0 (CIOB-X2)
- **Memory:** Supports six 184-pin DDR DIMM sockets, PC2100/PC1600 registered ECC DDR DIMMs, 128MB to 12GB system memory.
- **Processor:** Support for two Intel® Xeon™ processor up to 2.8 GHz+ frequency.
- **Network Controller:** Intel® 82544GC Gigabit Ethernet controller, Intel® 82540EM Gigabit Ethernet controller
- **Drive Controller:** LSI 53C1030/64-bit/100MHz Dual Ultra-320 channels. Two UltraDMA 100 IDE channels.
- **Graphics:** ATI RAGE-XL PCI with 8MB PC-100 SDRAM video memory
- **Onboard IO:** 1 X PS/2 mouse port, 1 X PS/2 keyboard slot, 1 X serial ports, 1 X 15-pin VGA port, 1 X floppy drive slot, 2 X IDE ports, 4 X USB ports, 2 X RJ-45 LAN port, 2 X 68-pin SCSI connectors
- **Special IO:** IPMB connector, SM-Bus
- **Expansion:** 5 X 64-bit 3V PCI-X slots, 1 X 32-bit/33Mhz 5V PCI slot
- **Device Bays:** 6 X hot-swap trays for SCA SCSI hard drives, 3 X 5.25 inch bay, 1 X floppy disk drive bay.
- **Power Supply:** 500W redundant power supply.
- **Hardware Monitors:** Voltage, temperature, Automatic System Restart (ASR), fan speed.

1.2 Front Panel Features

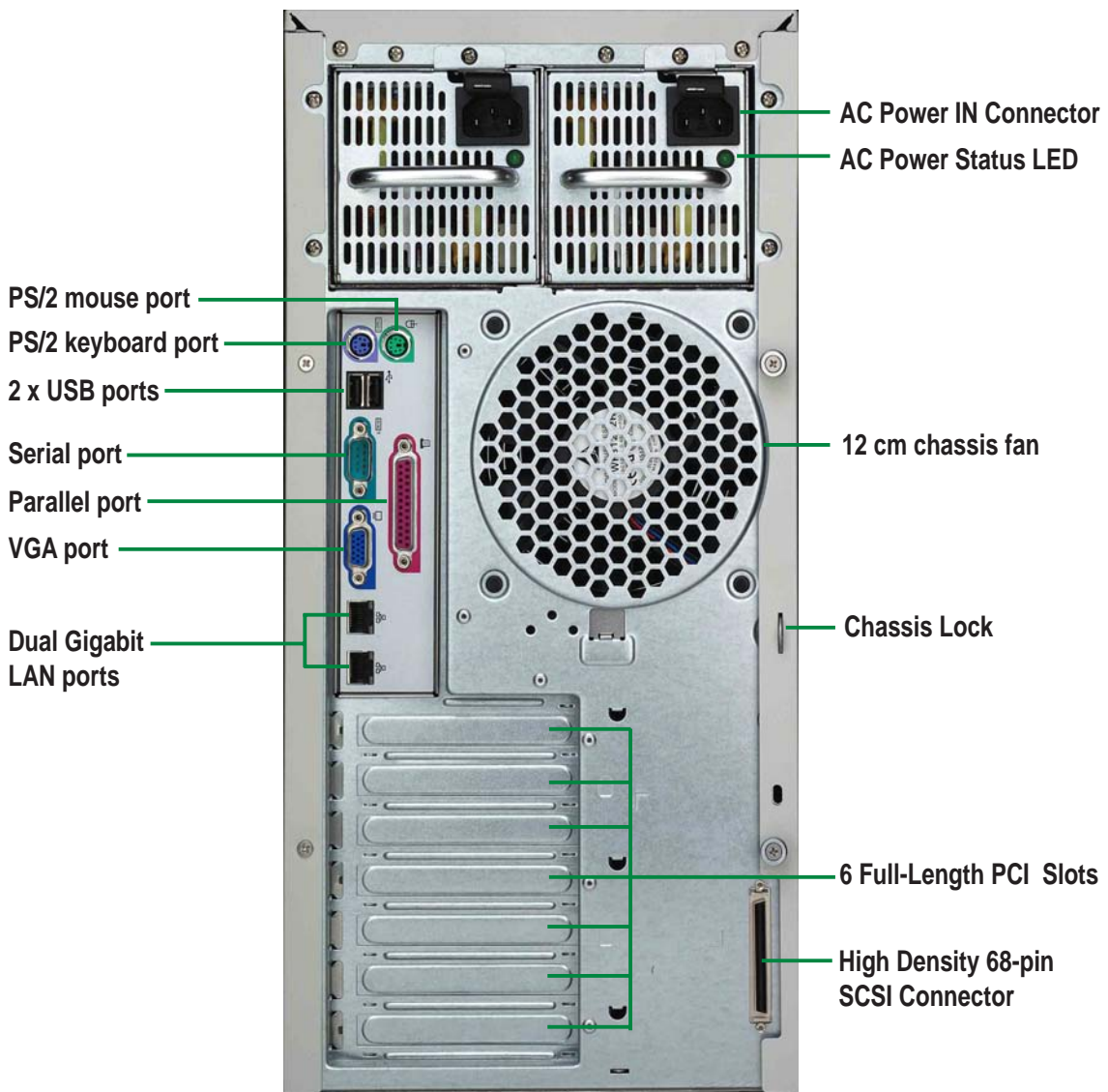
The front panel allows easy access to the hard disk drives. The power and reset buttons, LED indicators, optical drive, floppy drive and two USB connectors are also located on the front panel. For future installation of 5.25 devices, there are two drive bays available. The front panel of the server is protected by a door and lock for added security.



For more detailed information of each LED display, refer to "1.5 LED Table" on page 1-6.

1.3 Rear Panel Features

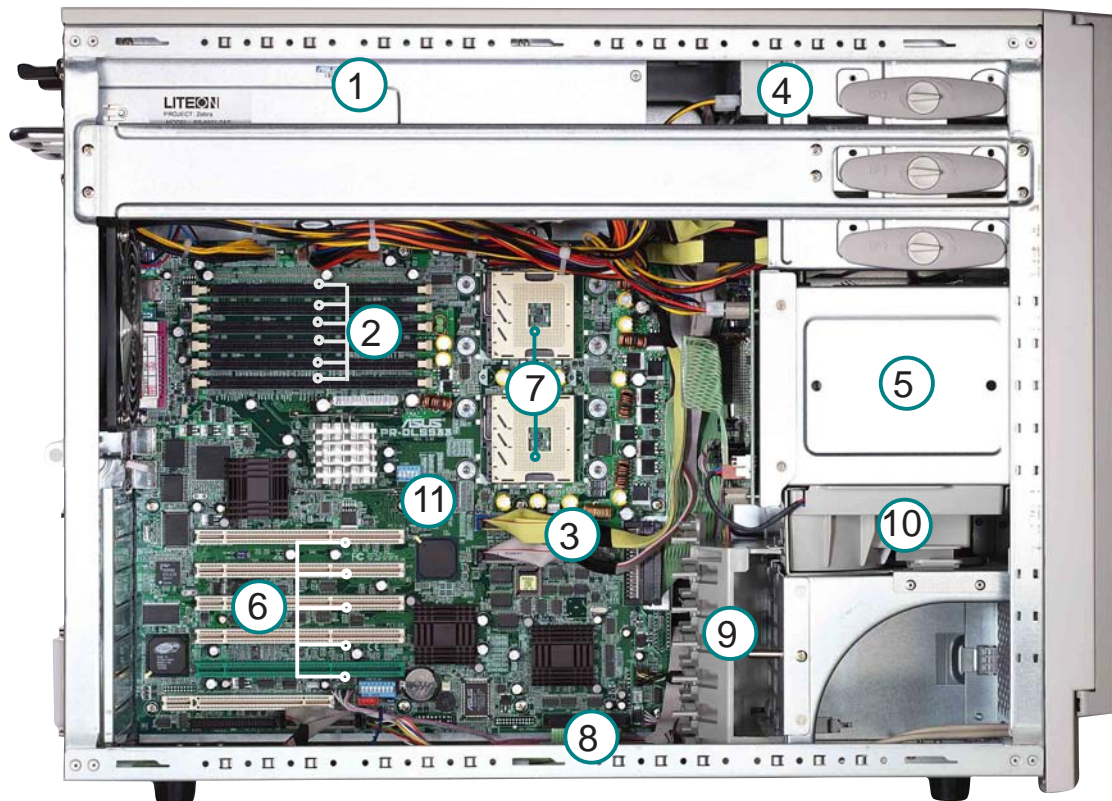
The server rear panel includes the connectors, the system devices, a chassis lock and six full-length expansion cards slot. The following shows the features on the rear side of the server.



You may secure the chassis lock with an additional padlock or other security device for added server system security.

1.4 Internal Features






The standard components inside the server include the motherboard, power supply, floppy and CD-ROM drives, and cables. The picture below shows the standard components of the server.



- | | |
|--------------------------------|----------------------------------|
| 1. Redundant power supply cage | 6. 5 x 64 bit 3V PCI-X slots |
| 2. 6 x DDR DIMM sockets | 7. CPU sockets |
| 3. 2 x IDE cable | 8. Internal 68-pin SCSI cable |
| 4. 5 1/4" CD-ROM drive | 9. PCI Long Card support guide |
| 5. HDD hot swap modules | 10. 12 cm hot swap module blower |
| | 11. PR-DLS533 motherboard |

1.5 LED Table

The following table describes the LED display found on the front panel and rear panel of the AP1700 server system.

Icon	LED	Display	Description
①	 Drive Status LED	Green	HDD insert and Power status is good
		Red	HDD Fail
		Red blinking	HDD rebuilding (RAID card SAF-TE* function)
①	 Drive Activity LED	Blinking	HDD Read/Write data
②	 Power LED	ON	System power ON
		Blinking	Suspend Mode
③	 HDD Access LED	OFF	No activity
		Blinking	Read/Write data in HDD
④	 Message LED	OFF	Normal/No incoming event
		Blinking	ASMS indicate HW monitor event

*SCSI Access Fault - Tolerant Enclosure



Only RAID cards with SAF-TE feature is enabled with HDD rebuilding function.