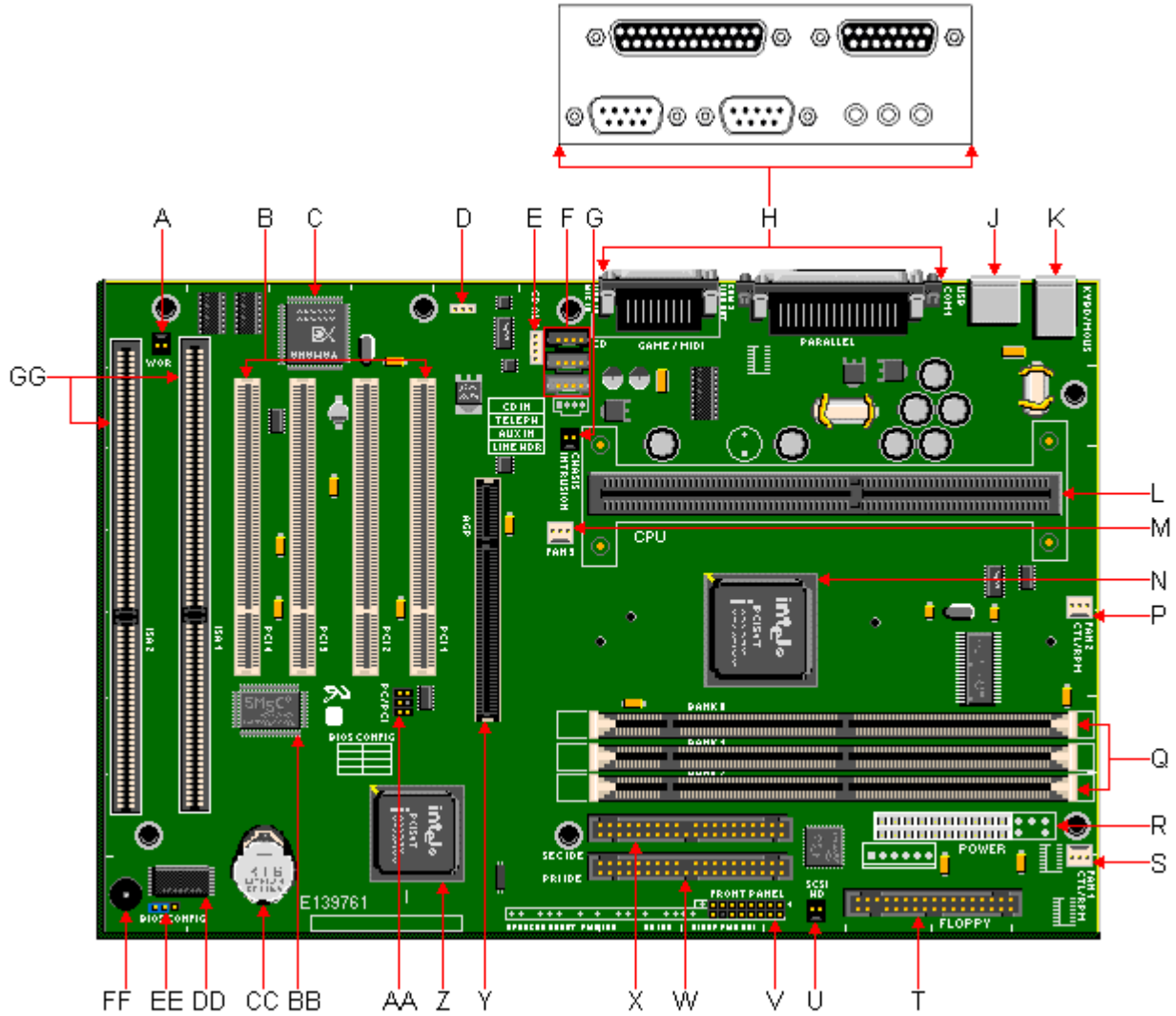


# Packard Bell 872 M/Board



**Item Description**

- A Wake On Ring Connector
- B PCI Slots
- C YamahaSD1-L PCI Accelerator
- D Wake On LAN Connector (Optional)
- E CD Audio Connector
- F CD-ROM Audio/Telephony/Aux.Line-In Connectors
- G Chassis Intrusion Connector
- H Rear Port Connectors
- J Dual USB Ports
- K PS/2 Keyboard & Mouse Ports
- L SLOT1 SEC Cartridge Connector
- M Fan 3 Connector
- N 82443BX PCI AGP Controller (PAC)

**Item Description**

- S Fan 1 Connector
- T Floppy Connector
- U SCSI HD Connector
- V Front Panel Connectors
- W Primary IDE Connector
- X Secondary IDE Connector
- Y AGP Port
- Z 82371EB PIIX4E
- AA PC/PCI Connector
- BB SMC FDC37M707 Super I/O Controller
- CC Battery
- DD Flash BIOS
- EE System Configuration Jumper Block (J8A1)

|   |                        |    |               |
|---|------------------------|----|---------------|
| P | Fan 2 Connector        | FF | Piezo Speaker |
| Q | DIMM sockets           | GG | ISA Slots     |
| R | Power Supply Connector |    |               |

## Specification

- **Audio Options:**
  - Crystal Semiconductor CS4297 Audio Codec (optional).
  - Yamaha DS1-L PCI Accelerator (optional).
- **Battery :** Lithium 3V.
- **BIOS :** Intel E28F002BXT80 2 MBit Flash EPROM. System BIOS by Phoenix.
- **Bus :** PCI/ISA based system bus. 100MHz maximum bus speed.
- **Cache :** 32K level 1 cache. Pentium II - 512KB level 2 cache in the Single Edge Contact cartridge. Celeron - 0 or 128KB level 2 cache .
- **Chipset :** Intel 82440BX PCI AGP Controller (PAC). Intel 82371EB PCI chipset (P11X4E).
- **CPU :** This motherboard supports the following CPUs:
  - Celeron 266/66, 300/66
  - Mendicino 300/66, 333/66
  - PentiumII 233/66, 266/66, 300/66
  - Deschutes 266/66, 333/66, 350/100, 400/100
  - PentiumIII 450/100, 500/100
- **I/O :** SMC FDC37M707 Super I/O Controller.
- **Interfaces :**
  - 2 DB-9 Serial ports
  - 1 DB-25 Parallel port
  - 1 PS/2 keyboard port
  - 1 PS/2 mouse port
  - 2 USB connector
  - 1 DB-15 MIDI/Game port (Optional)
  - 3 Stereo mini-jacks for Line In, Line Out & Mic (Optional)
- **RAM :** 3 3.3V 168-pin DIMM sockets, upgradeable to 768MB total SDRAM.
- **Video :** No on-board video.

## Jumpers

### J8A1 - CMOS Clear

| Pins | Function  |
|------|---|
| 1-2  | Normal Operation. The BIOS uses current configuration information and passwords for booting.  |
| 2-3  | Configure. After POST, CMOS Setup runs automatically. The maintenance menu is displayed.      |
| None | Recovery. The BIOS attempts to recover the BIOS information. A recovery diskette is required. |

## Upgrades

- **Cache Upgrade.** The Intel Pentium II CPU has 32K level 1 cache and 512 KB level 2 cache contained in the Single Edge Contact cartridge. Some Celeron processors have integrated 128 KB level 2 cache implemented on the processor die. Other Celeron processors have no level 2 cache. The cache is non-upgradeable.

- **CPU Upgrade.** This motherboard utilizes the SEC slot (SLOT1), which is a staggered 242 pin Single Edge Contact slot. This motherboard is designed to be upgradable with any of the following processors:
  - Celeron 266/66, 300/66
  - Mendicino 300/66, 333/66
  - Pentium™II 233/66, 266/66, 300/66
  - Deschutes 266/66, 333/66, 350/100, 400/100
  - Pentium™III 450/100, 500/100

For processors operating up to 333MHz, the speed of the processor can be set by using the configuration jumper (J8A1) on the motherboard to enable Configuration Mode. For processors operating at 350MHz or faster, the processor speed will be auto-detected on boot-up.

- **RAM Upgrade.** The 872 motherboard has three DIMM sockets configured as three (0-2) banks. The upgrade memory is upgradeable to 384MB. The 168-pin DIMM sockets will accept 1Mbx64 (8MB), 2Mbx64 (16MB), 4Mbx64 (32MB), 8Mbx64 (64MB) and 16Mbx64 (128MB) SDRAM DIMMs with gold-plated contacts, operating voltage of 3.3V and an operating frequency of 66 or 100 MHz. Non-ECC (64-bit) and ECC (72-bit) SDRAM are both supported. This motherboard will accept either single or double sided DIMMs. Memory type, size, and speed can vary between sockets. This motherboard will not accept 36 bit DIMM modules (parity).

Note - Processors with 100 MHz front-side bus should be paired only with 100 MHz SDRAM. Processors with 66 MHz front-side bus can be paired with either 66 MHz or 100 MHz SDRAM. PC100-compliant (100MHz) DIMMS should be used with any processor operating at 350MHz or faster.

- **Video RAM Upgrade.** The motherboard has no on-board video graphics controller. Video RAM upgrades are dependent on the specifications of the video card being used. Refer to the documentation for the specific video card being used.