

SB02017 (5 PAGES)

Computers

700MHz Multimedia PC

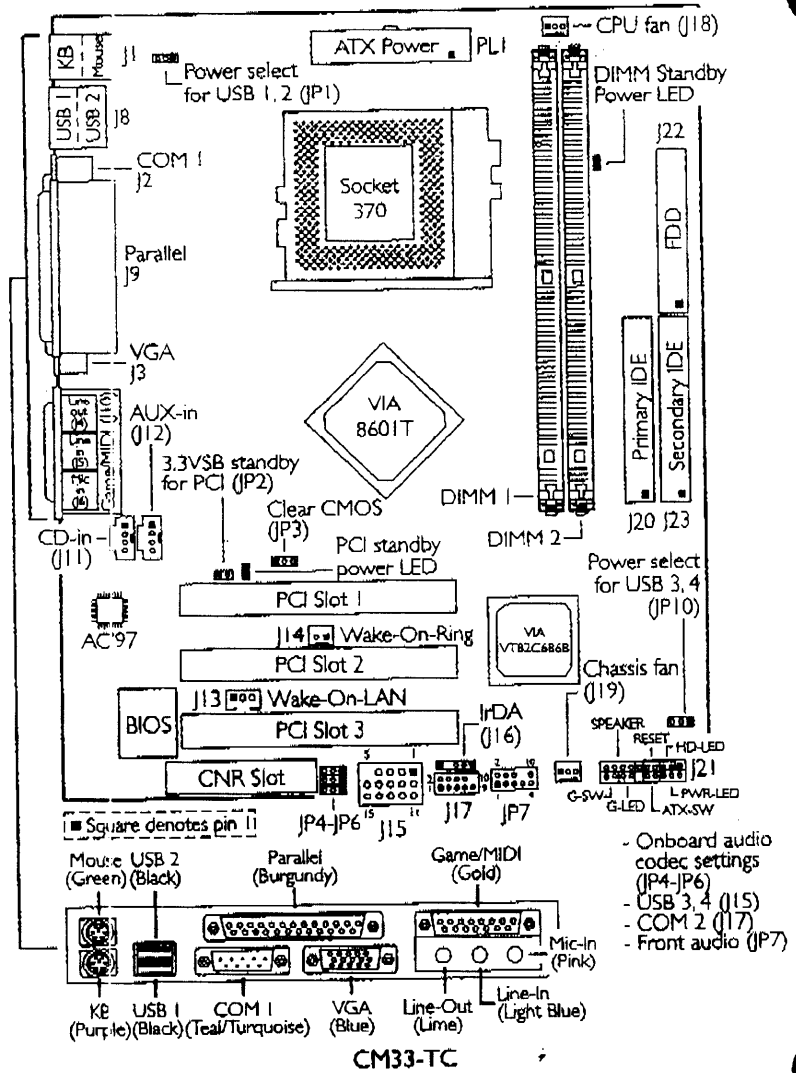
SB02017

- VIA C3 700MHz CPU
 - Windows 98 (release 1) preloaded
 - 128MB of PC133 SDRAM (1 free socket)
 - 20GB Hard Disk, ATA100 interface
 - Floppy Drive
 - 52x CD-ROM drive
 - Onboard 2D/3D AGP graphics with 8MB shared memory
 - Onboard audio
 - 56K V.90 PCI modem
 - Onboard 10/100 Mbps PCI LAN card
 - Mains powered speakers
 - PS2 Keyboard and mouse
 - ATX MIDI case with 250W PSU
 - 2x free 5.25" external bays, 1x free 3.5" external bay
 - 3x PCI slots (2 used), 1x CNR slot (shared)
 - Connections: 2x USB, 1x 9 way serial, 1x parallel, 1x VGA, 2x PS2, mic in, line in, speaker out and game/MIDI
 - Dimensions (HxWxD): 350 x 200 x 465mm
- Contents: PC, PS2 Keyboard & mouse, speakers, mains lead, line cord, Windows CD driver disks and user guides

12 months RTB warranty

CPC Brochure Information:

1.1 System Board Layout



Chapter 2 - English

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English

Package Checklist

The system board package contains the following items:

- The system board
- A user's manual
- One IDE cable for ATA/33, ATA/66 or ATA/100 IDE drives
- One 34-pin floppy disk drive cable
- One "Main Board Utility" CD

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

2.1 Features and Specifications

2.1.1 Features

Chipset

- VIA® Apollo PLE133T - 8601T/82C686B

Processor

The system board is equipped with a switching voltage regulator that automatically detects 1.050V to 1.825V.

- Pentium® III
 - FCPGA2 133MHz FSB (1.13GHz-1.26GHz on 0.13µ)
 - FCPGA 133MHz FSB (533EB-1GHz)
 - FCPGA 100MHz FSB (500E-1.1GHz)
- Celeron™
 - FCPGA2 100MHz FSB (≥1.2GHz on 0.13µ)
 - FCPGA 100MHz FSB (800MHz-1.1GHz)
 - FCPGA 66MHz FSB (566MHz-700MHz)
- VIA CynxIII processor

System Memory

- Supports up to 1GB using VCM (Virtual Channel Memory) or PC SDRAM DIMM (unbuffered or registered)
- Two 168-pin DIMM sockets
 - Uses x64 PC SDRAM, 3.3V
 - PC-100 SDRAM DIMM for 100MHz FSB processors
 - PC-133 SDRAM DIMM for 133MHz FSB processors



Note: If you are using more than one DIMM, make sure you insert the same type of DIMMs into the DIMM sockets. Using different types (VCM or PC SDRAM) of DIMMs may cause problems.



Note: The user's manual in the provided CD contains detailed information about the system board. If, in some cases, some information doesn't match those shown in this manual, this manual should always be regarded as the most updated version.

English

DIMMs	Memory Size	DIMMs	Memory Size
2MBx64	16MB	16MBx64	128MB
4MBx64	32MB	32MBx64	256MB
8MBx64	64MB	64MBx64	512MB

Expansion Slots

The system board is equipped with 2 dedicated PCI slots and 1 shared PCI/CNR slot. The CNR slot supports modem riser card only.

Onboard Graphics Features

- Integrated iCADE3D 2D/3D/Video accelerator
 - Shares 8MB of the system memory
 - Optimized Shared Memory Architecture (SMA)
 - High quality DVD video playback
- 3D rendering features:
 - 32-bit true color rendering
 - MPEG-2 video textures
- 2D hardware acceleration features
- Motion video architecture
- Software drivers:
 - Windows® 98/98SE/ME/2000
 - Windows NT™ 4.0

Onboard Audio Features

- Supports Microsoft® DirectSound
- Standard v1.0 or v2.0 AC'97 codec
- AC'97 supported with full duplex, independent sample rate converter for audio recording and playback
- Downloadable sound (DIS) level-1
- Supports 1W audio amplifier on line-out jack

Onboard LAN Features (CM33-TL only)

- Uses Realtek RTL8100 fast ethernet controller
- Integrated IEEE 802.3 10BASE-T and 100BASE-TX compatible PHY
- 32-bit PCI master interface
- Integrated power management functions
- Full duplex support at both 10 and 100 Mbps
- Supports IEEE 802.3u auto-negotiation
- Supports wire for management

ATX Double Deck Ports (PC 99 color-coded connectors)

- Two USB ports
- One RJ45 LAN port (CM33-TL only)
- One NS16C550A-compatible DB-9 serial port
- One DB-15 VGA port
- One DB-25 parallel port
- One mini-DIN-6 PS/2 mouse port
- One mini-DIN-6 PS/2 keyboard port
- One game/MIDI port
- Three audio jacks: line-out, line-in and mic-in

Connectors

- One connector for 2 additional external USB ports
- One 9-pin connector for 1 external serial port
- One connector for I/O interface
- Two IDE connectors
- One floppy drive interface supports up to two 2.88MB floppy drives
- One ATX power supply connector
- One Wake-On-LAN connector
- One Wake-On-Ring connector
- CPU fan and chassis fan connectors
- Two internal audio connectors (AUX-in and CD-in)
- One connector for external line-out and mic-in jacks

PCI Bus Master IDE Controller

- Two PCI IDE interfaces support up to four IDE devices
- Supports AT/AT33, AT/486 and AT/AT100 hard drives
- PIO Mode 3 and Mode 4 Enhanced IDE (data transfer rate up to 16.6MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120 and ZIP

IrDA Interface

The system board is equipped with an IrDA connector for wireless connectivity between your computer and peripheral devices. It supports peripheral devices that meet the HPSIR and ASKIR standard.

USB Ports

The system board supports 4 USB ports. Two onboard USB ports are located at the ATX double deck ports of the board. The J15 connector on the system board allows you to connect 2 more optional USB ports. These optional USB ports, which are mounted on a card-edge bracket, will be provided as an option. USB allows data exchange between your computer and a wide range of simultaneously accessible external Plug and Play peripherals.

BIOS

- Award BIOS, Windows® 95/98/2000/ME Plug and Play compatible
- Supports SCSI sequential boot-up
- Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function
- 2Mbit flash memory

Desktop Management Interface (DMI)

The system board comes with a DMI 2.0 built into the BIOS. The DMI utility in the BIOS automatically records various information about your system configuration and stores these information in the DMI pool, which is a part of the system board's Plug and Play BIOS. DMI, along with the appropriately networked software, is designed to make inventory, maintenance and troubleshooting of computer systems easier.

2.1.2 System Health Monitor Functions

The system board is capable of monitoring the following "system health" conditions.

- Monitors CPU/system temperature and overheat alarm
- Monitors VCCORE/3.3V/5V/12V/2.5V voltages and failure alarm
- Monitors CPU/chassis fan speed and failure alarm
- Automatic CPU and chassis fans on/off control
- Read back capability that displays temperature, voltage and fan speed

If you want a warning message to pop-up or a warning alarm to sound when an abnormal condition occurs, you must install the "VIA Hardware Monitor" utility. This utility is included in the CD that came with the system board.

2.1.3 Intelligence

CPU Temperature Protection

The CPU Temperature Protection function has the capability of monitoring the CPU's temperature during system boot-up. Once it has detected that the CPU's temperature exceeded the CPU temperature limit defined in the BIOS, the system will automatically power-off after 5 warning beeps.

CPU Fan Protection

The CPU Fan Protection function has the capability of monitoring the CPU fan during system boot-up and will automatically power-off the system once it has detected that the CPU fan did not rotate. This preventive measure has been added to protect the CPU from damage and insure a safe computing environment.

CPU Overclocking

The CPU Overclocking function allows you to adjust the processor's bus clock. However, overclocking may result to the processor's or system's instability and are not guaranteed to provide better system performance.