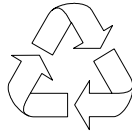


# Acer TravelMate 660 Series

## Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to <http://csd.acer.com.tw>



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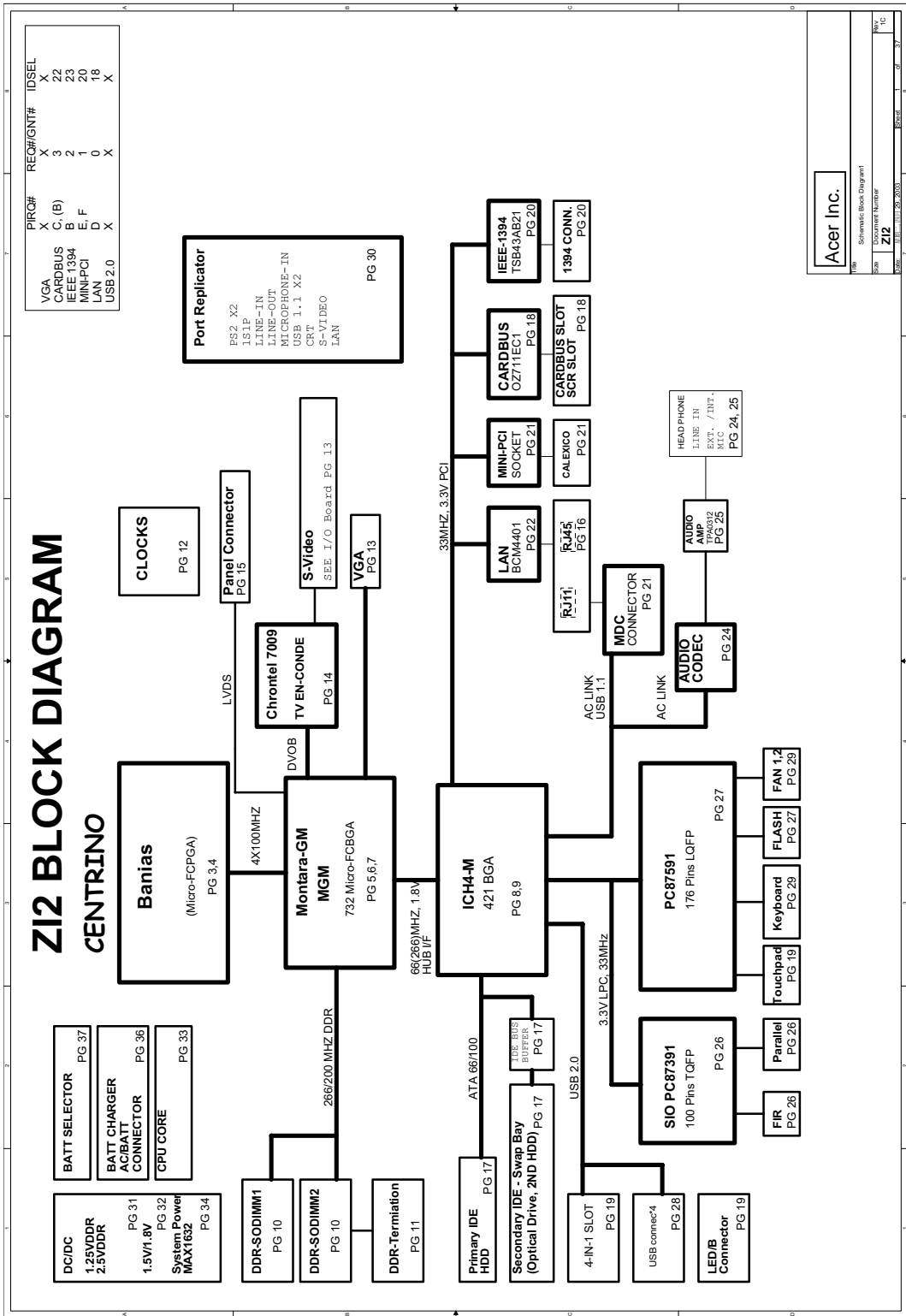
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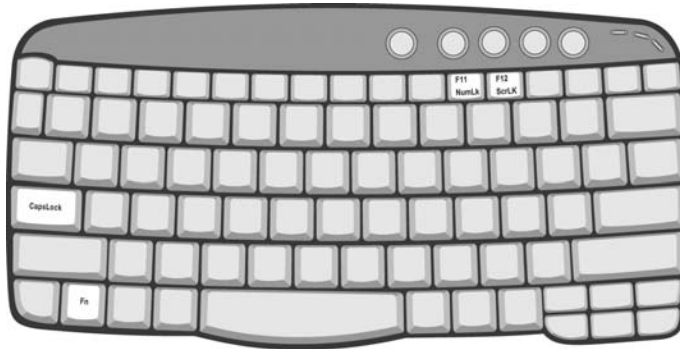
# System Block Diagram





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## Lock Keys

The keyboard has three lock keys which you can toggle on and off.



Lock Key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num lock (Fn-F11)	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll lock (Fn-F12)	When Scroll Lock is on, the screen moves one line up or down when you press  and  respectively. Scroll Lock does not work with some applications.

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# Hardware Specifications and Configurations

## Processor

Item	Specification
CPU type	Intel Mobile Pentium M 1.3G ~1.7G and higher
CPU package	/μ -FCPGA package
CPU core voltage	1.468V (Full speed)

## BIOS

Item	Specification
BIOS vendor	Phoenix
BIOS Version	3A01
BIOS ROM type	Flash ROM
BIOS ROM size	512KB
BIOS package	PLCC
Supported protocols	ACPI 1.0b, PC Card 95, SM BIOS 2.3, EPP/IEEE 1284, ECP/IEEE 1284 1.7 & 1.9, PCI 2.2, PnP 1.0a, DMI 2.0, PS/2 keyboard and mouse, USB 2.0, VGA BIOS, CD-ROM bootable, IEEE 1394
BIOS password control	Set by setup manual

## Second Level Cache

Item	Specification
Cache controller	Built-in CPU
Cache size	1024KB
1st level cache control	Always enabled
2st level cache control	Always enabled
Cache scheme control	Fixed in write-back

## System Memory

Item	Specification
Memory controller	Intel 855GM built-in
Memory size	0MB (no on-board memory)
DIMM socket number	2 sockets
Supports memory size per socket	256MB, 512MB and 1G
Supports maximum memory size	2G (by two 1024MB DDR RAM module)
Supports DIMM type	DDR RAM
Supports DIMM Speed	266 MHz
Supports DIMM voltage	2.5V
Supports DIMM package	200-pin soDIMM
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications.

## System Utilities

### BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press **F2** to enter setup. Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

PhoenixBIOS Setup Utility	
Info.	Main System Devices Security Boot Exit
	Item specific Help
CPU Type	Intel® Pentium® M processor 1400MHz
CPU Speed	1400MHz
HDD1 Model Name	IC25N040ATCS04-0
HDD1 Serial Number	CSH405DCH8WM3B
HDD2 Model Name	
HDD2 Serial Number	
ATAPI Device	OSI DVD-ROM SDR-083
System BIOS Ver:	2A07
VGA BIOS Ver:	Montara-GM 2965
KBC Ver:	PQ1B218
Serial Num:	xxxxxxxxxxxxxxxxxxxx
Asset Tag Number:	
Product Name:	TravelMate 660
Manufacturer Name:	Acer
UUID:	200635FF0864D711A51200C09F151FC6
F1 Help	↑↓ Select Item F5/F6 Change Values F9 Setup defaults
Esc Exit	← Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit

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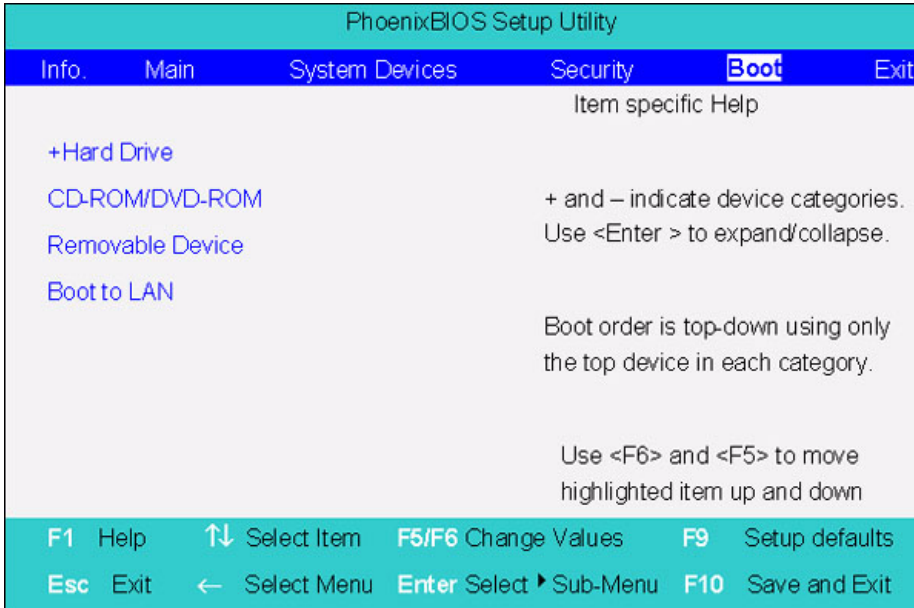


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## Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the distette drive in module bay, the onboard hard disk drive and the CD-ROM in module bay.



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# Removing the Optical Module/HDD Module/Wireless Lan Card and LCD module

## Removing the Optical Module

1. Slide the optical disk drive latch.
2. Remove the ODD module.



## Removing the HDD Module

1. Remove the two screws holding the HDD cover.
2. Remove the HDD cover.
3. Remove the HDD module.



## Removing the Wireless LAN Card

1. Remove the screw that secures the PCI door then remove the PCI door.
2. Disconnect the right and the left wireless antenna.
3. Pop out the wireless LAN card then remove it.



## Troubleshooting

Use the following procedure as a guide for computer problems.

**NOTE:** The diagnostic tests are intended to test this model. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Duplicate symptom and obtain the failing symptoms in as much detail as possible.
2. Distinguish symptom. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4. If any problem occurs, you can perform visual inspection before you follow this chapter's instructions. You can check the following:
  - power cords are properly connected and secured;
  - there are no obvious shorts or opens;
  - there are no obviously burned or heated components;
  - all components appear normal.
5. Use the following table with the verified symptom to determine which page to go to.






Symptoms (Verified)	Go To
Power failure. (The power indicator does not go on or stay on.)	"Power System Check" on page 65.
POST does not complete. No beep or error codes are indicated.	"Power-On Self-Test (POST) Error Message" on page 67 "Undetermined Problems" on page 75
POST detects an error and displayed messages on screen.	"Error Message List" on page 68
Other symptoms (i.e. LCD display problems or others).	"Power-On Self-Test (POST) Error Message" on page 67
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 67 "Intermittent Problems" on page 74 "Undetermined Problems" on page 75

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### Modem/LAN-Related Symptoms

Symptom / Error	Action in Sequence
Internal modem does not work correctly.	Phone cable Driver Reconnect the Internal modem cable to the main board tightly. Main board
Internal LAN does not work correctly	Lan cable Driver Main board

**NOTE:** If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 75.

Picture	No.	Partname And Description	Part Number
<b>Adapter</b>			
	NS	ADPATER DELTA 75W 3PAPD-75FB BA PFC	AP.T2301.001
		ADPATER LITEON 75W 3P PA-1750-02CA PFC	AP.T2303.001
<b>Battery</b>			
	13	BATTERY SANYO LI-ION 8CELL 4UR18650F-2-QC-ZG1 4400mAH	BT.T2303.001
		BATTERY SIMPLO LI-ION 8CELL (LI-ION BATTERY PACK ZG14S2P, 4400mAH)	BT.T2306.001
		BATTERY SANYO LI-ION 6CELL 3UF103450P-2-QC-20 3600 mAH	BT.T2303.002
<b>Boards</b>			
	NS	MODEM CARD (Ambit T60M283.10)	54.T29V7.001
	NS	MODEM /BLUETOOTH COMBO BOARD AMBIT T60M665.00	54.T23V7.002
	NS	WIRELESS LAN CARD (802.11a+g) (Ambit T60H677.03)	54.T29V7.002
		WIRELESS LAN BOARD (802.11b) INTEL WM3B2100	54.T25V7.001
		WIRELESS LAN BOARD (802.11a+b) INTEL WM3B7100	54.T25V7.002
	4	LAUNCH BOARD	55.T23V7.001
	6	TOUCH PAD BOARD W/CABLE	55.T23V7.002
<b>Cables</b>			

## Test Compatible Components

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This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® XP Home, Windows® XP Pro and Windows® 2000 environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the TravelMate 660 series Compatibility Test Report released by the Acer Mobile System Testing Department.

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