SAMSUNG

Notebook Series

SN6000 Series Users Manual



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FederalCommunicationsCommission(FCC) Thisdevicecomplies withPart15oftheFCCRules.Operationis subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Thisequipmenthasbeentestedandfoundtocomplywiththelimits foraClassBdigitaldevicepursuanttoPart15oftheFCCRules. Theselimitsaredesignedtoprovidereasonableprotectionagainst harmfulinterferenceinaresidentialinstallation.Thisequipment generates,usesandcanradiateradiofrequencyenergyandifnot installedandusedinaccordancewiththeinstructions,itmaycause harmfulinterferenceinaparticularinstallation.Ifthisequipment doescauseharmfulinterferencetoradioortelevisionreception, whichcanbedeterminedbyturningtheequipmentoffandon,the userisencouragedtotrytocorrecttheinterferencebyoneormoreof thefollowingmeasures:

- Reorientorrelocatethereceivingantenna.
- Increase these paration between the equipment and receiver.
- Connect the equipment into a noutleton a circuit different from that to which the receiver is connected.
- Consult the dealer or an experience dradio/TV technician for help.

If necessary, the usershould consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following book let help ful: "Something About Interference." This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction will be the responsibility of the user. Use only shield edd at a cables with this system.

DescriptionofEUT SamsungSN6000SeriesComputers ModelNumbers SamsungSN6000SeriesComputers

International

IfyourequipmenthasaCEMark,pleasenotethefollowingInternationalCEMark informationbelow. CEMark SamsungComputerssoldinEuropecomplywiththefollowingdirectivesandstandards: Directives LowVoltageDirective73/23/EEC EMCDirective89/336/EECandAmendingDirective92/31/EEC CEMarkingDirective93/68/EEC

Standards

Emissions EN50081-1:1992(EN55022:1994+A1:1995ClassB) EN61000-3Part2,3:1995 Safety EN60950/A4:1997 Immunity EN50082-1:1992 IEC801-2:1991/prEN55024-2:1992 IEC801-3:1984/prEN55024-3:1991 IEC801-4:1988/prEN55024-4:1992

Manufacturer

ManufacturedbyASTIrelandLtdforSamsungElectronicsComputerDivisionat: RaheenIndustrialEstate Limerick Ireland

SignedDeclarationofConformityDocuments

SignedDeclarationofConformitydocumentsforSamsungNotebookproductsareonfileat theSamsungElectronicsfacilitylocatedat: SamsungElectronicsCo.Ltd 225HookRiseSouth Surbiton, London, KT67LD UK

CLASS1LASERPRODUCT .

CAUTION

The laser beam used by this CD-ROM drive unit can be harmful to the eyes. Do not attempt to open the unit. All service procedures should be performed by an authorized dealer or distributor.

WARNING

Neveruseanyopticalinstruments in conjunction with this unit. To do so will greatly increase the hazard to your eyes.

ADVARSEL

USYNLIGLASERSTRÅLINGVEDÅBNING,NÅRSIKKERHEDSAFBRYDEREER UDEAFFUNKTION. SEIKKEINDISTRÅLEN-HELLERIKKEMEDOPTISKEINSTRUMENTER. **ADVARSEL** USYNLIGLASERSTRÅLINGNÅRDEKSELÅPNESOGSIKKERHEDSLÅSBRYTES. STIRRIKKEINNISTRÅLENELLERSEDIREKTEMEDOPTISKE INSTRUMENTER.

LUOKAN1LASERLAITE.

VAROITUS!

LAITTEENKÄYTTÄMINENMUULLAKUINTÄSSÄKÄYTTöOHJEESSA MAINITULLATAVALLASAATTAAALTISTAAKÄYTTÄJÄN TURVALLISUUSLUOKAN1YLITTÄVÄLLENÄKYMÄTTöMÄLLE LASERSÄTEILYLLE.

KLASS1LASERAPPARAT.

VARNING

OMAPPARATENANVÄNDSPÅANNATSÄTTÄNIDENNABRUKSANVISNING SPECIFICERATS,KANANVÄNDARENUTSÄTTASFöROSYNLIGLASER-STRÅLNING,SOMöVERSKRIDERGRÄNSENFöRLASERKLASS1.

Labelsappearingonthedrives: CAUTION-INVISIBLELASERRADIATIONWHENOPEN.AVOIDEXPOSURETO BEAM.

VORSICHT!UNSICHTBARELASERSTRAHLUNGTRITTAUS,WENNDECKEL GEöFFNET.NICHTDEMSTRAHLAUSSETZEN!

VARNING-OSYNLIGLASERSTRÅLNINGNÄRDENNADELÄRöPPNAD. STRÅLENÄRFARLIG.

ADVARSEL-USYNLIGLASERSTRÅLINGVEDÅBNING.UNDGÅUDS/ETTELSE FORSTRÅLING.

CLASS1LASERPRODUCTLASERSCHUTZKLASSE1PRODUKTTOEN60825

Readalloftheseinstructions, and save these instructions for later use.

- Followallwarningsandinstructionsmarkedontheproduct.Unplugthis productfromthewalloutletbeforecleaning.Donotuseliquidcleanersor aerosolcleaners.Useadampclothforcleaning.
- Donotusethisproductnearwater.Neverspillliquidofanykindonthe product.
- Donotplacethisproductonanunstablecart,stand,ortable.
- Slotsandopeningsinthecabinetareprovidedforventilation,toensure reliableoperationoftheproductonabed,sofa,rug,orothersimilarsurface. Thisproductshouldneverbeplacednearoroveraradiatororheatregister. Thisproductshouldnotbeplacedinabuilt-ininstallationunlessproper ventilationisprovided.
- Beforeconnectingthisproducttoapowersource, checktherequiredvoltage and frequency match the available powersource.
- ThiscomputerispoweredbyaninternalbatterypackorbyanexternalAC powersourcethroughanexternalACadapter.Useofanotherbatterypackor externalACadaptermaypresentriskoffireorexplosion.
- Thisproductisequippedwitha2-wiretypeplug.Ifyouareunabletoinsert theplugintotheoutlet,contactyourelectriciantoreplaceyourobsoleteoutlet.
- Donotallowanythingtorestonthepowercord.
- Donotplacethisproductinalocationwheresomeonemaytripoverthecord.
- If an extension cord is used with this product, make sure that the total of the ampererating sonthe products plugged into the extension cord do not exceed the extension cord ampererating.
- Neverpushobjectsofanykindintothisproductthroughthecabinetslots, as they may touch dangerous voltage points or short outparts; that could result in arisk of fire or electric shock.
- Exceptasexplainedelsewhereinthismanual,donotattempttoservicethis productyourself.
- Handlebattery,floppyandCD-ROMdriveswithcare.Ifdropped,theymaybe damaged.
- Donotallowthebatterytobeexposedtodirectsunlightforextendedperiods oftime.

- Donotattempttodisassemblethebattery.Ifthebatteryisdisassembledand theelectrodesareexposedtooutside,thebatterymaygenerateheatand smokebychemicalreaction.
- Donotexposethebatterytomoistureorchemicals.
- Chargethebatteryonlyasdescribedinthisdocument.
- Donotshortcircuitthebatteryterminalsastheresultinghighcurrentscan damagethebattery.
- Thebatteryshouldnotbeusedtopowerotherproducts.
- Donotdisposeofausedbatteryinafireorincinerator, as an explosion may result.
- Thebatteryshouldberecycled.
- Donotsubjectthebatterytotemperaturelessthan-20degreesCentigradeor greaterthan50degreesCentigrade.
- Unplugthisproductfromthewalloutletandreferproblemstotheservice representativeunderthefollowingconditions:
- Whenthepowercordorplugisdamagedorfrayed.
- Ifliquidhasbeenspilledintoproduct.
- If the product has been exposed to rain or water.
- If the product does not operate normally when the operating instructions are followed, adjustonly those controls that are covered by the operating Instructions. Improperadjustment of other controls may result in damage.

Contents

| UsingYourDocumentation | 1 |
|--------------------------------------|---|
| SN6000SeriesQuickStart | 1 |
| ThisUser'Manual | 1 |
| OpeningtheOnlineManual | 2 |
| GettingAroundintheOnlineManual | 2 |
| UsingHypertextLinksintheOnlineManual | 2 |
| SpecialFeaturesoftheUser'sManual | 3 |
| UsingtheSoftwareDocumentation | 4 |
| VisitingtheSamsungWebSite | 4 |
| | |

UsingYourComputerforthe

| FirstTime | 7 |
|----------------------------------|----|
| AttachingtheACAdapter | 7 |
| TurningOntheComputer | 8 |
| UnderstandingPOST | 9 |
| AdjustingtheLCDDisplay | 10 |
| TurningOffYourComputer | 10 |
| RestartingYourComputer | 11 |
| TipsforUsingYourComputer | 11 |
| TravelingwithYourComputer | |
| HandlingSpills | |
| StoringtheComputerforLongPeriods | 14 |
| UsingtheKeyboard | 15 |

| mgmencybeara | | |
|----------------------|-------|----|
| UsingtheNumericKey | pad | 16 |
| UsingSpecialFunction | nKeys | 17 |

| UsingtheTouchpad | 19 |
|--|----------------------------------|
| ReadingtheSystemStatusLights | 20 |
| ConnectingthePortReplicator | 22 |
| ConnectingPeripheralDevices UsingtheTV-out(composite)Port | 24 27 |
| ConnectingExternalModules | 29 30 |
| UsingtheFloppyDrive | 32 |
| UsingtheCD-ROMDrive | |
| UsingtheHardDrive | |
| UsingtheBattery | 38 |
| ChargingtheBattery | 38 |
| SafelyUsingtheACAdapterandBatteries | 39 |
| Removing and Inserting the Battery | |
| | |
| MonitoringtheBatteryCharge | 41 |
| MonitoringtheBatteryCharge UsingtheBatteryGauge | 41 41 |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery | 41 41 42 |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings | 41 41 42 43 |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings | 41 41 42 43 43 |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup | 41 41 42 43 44 44 |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup StartingSystemSetup MainMeou | |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup StartingSystemSetup MainMenu | |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup StartingSystemSetup MainMenu AdvancedMenu SecurityMenu | |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup StartingSystemSetup MainMenu AdvancedMenu SecurityMenu PowerMenu | |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup StartingSystemSetup MainMenu AdvancedMenu SecurityMenu PowerMenu BootMenu | |
| MonitoringtheBatteryCharge UsingtheBatteryGauge UsingPowerProfilertoMonitortheBattery BatteryWarnings UsingSystemSetup StartingSystemSetup MainMenu AdvancedMenu SecurityMenu PowerMenu BootMenu ExitMenu | |

| UsingSystemSecurity | 59 |
|-------------------------------------|----|
| SystemPasswords | 59 |
| CreatingaPassword5 | 9 |
| DeletingaPassword6 | 0 |
| RequiringaBootPassword6 | 1 |
| LockingtheHardDriveBootSector | |
| LockingtheFloppyDrive6 ⁴ | 1 |
| LockingtheKeyboard6 | 1 |
| UsingPowerManagementOptions | 63 |
| MaximumPowerSavingMode6 | 3 |
| StandbyMode | 33 |
| RestMode | 34 |
| RestModePrecautions6 | 5 |
| UsingPowerProfiler | 35 |
| CreatingaSavetoDiskPartition | 67 |
| ChangingtheVideoConfiguration | 69 |
| ResolutionandColorDepth | Э |
| ConfiguringDisplayFeatures7 | 0 |
| SelectingaMonitorType7 | 1 |
| ChangingColorDepthandResolution72 | |
| ChangingtheVideoDriver72 | 2 |
| InWindows98:7 | 2 |
| InWindowsNT4.0:73 | 3 |
| WorkingwithPCCards | 75 |
| MaintainingPCCards7 | 6 |
| UsingPCCards7 | 6 |
| Windows98 | 77 |
| WindowsNT4.07 | 8 |

| UpdatingtheSystemBIOS | |
|--------------------------------|-------------------|
| PerformingtheBIOSUpdate | |
| TroubleshootingtheBIOSUpdate | |
| AboutDriversandSystemResources | 83 |
| Drivers | |
| IRQs | [−] 1 Tf |

UsingYourDocumentation

CongratulationsonyourpurchaseofanSamsungSN6000Series computer!Whetheryouarenewtousingaportablecomputerorarean experienceduser,yourSN6000Seriesdocumentationcanhelpyouget themostfromyourcomputer.Yourcomputercomeswiththe followingdocumentation:

- TheSN6000SeriesQuickStart
- TheOnline SN6000SeriesUser'sManual
- Third-partysoftwareuserdocumentation

Togetupandrunningquickly,seeyour *SN6000SeriesQuickStart*. Whenyouneedmorein-depthinformation,turntoyouronline *SN6000 SeriesUser'sManual*.

The following section stelly ouwhere to look for the information you need.

SN6000SeriesQuickStart

Youcanusethequickstartto

- Checkyourpackagecontents
- Gertipsonhowtoquicklysetupanduseyourcomputer
- Getalistingofthecomputer'sfeaturesandspecifications

ThisUser'Manual

Thisuser'smanualcanhelpyouto

- Learnhowtouseyourcomputer.
- Learnsafetyandmaintencetips.
- Learnhowtoconfigureyourcomputer.
- Getanswerstotroubleshootingquestions.

YourSN6000Seriesonlinemanualisincludedonthecomputer'shard driveinPDFformat.YoucanviewthemanualthroughtheAdobeTM AcrobatTMReader,whichisalsoincludedontheharddrive.

Toopentheonlinemanual:

- 1. ClicktheStartbuttonontheWindowstaskbar.
- 2. Select Programs.
- 3. Select SN6000SeriesOnlineManual .
- 4. Click *SN6000SeriesOnlineManual* intheSN6000Series OnlineManualfolder.Youronlinemanualappearsonthe screen.

GettingAroundintheOnlineManual

GototheAcrobatReaderHelpfortipsonusingtheReadertoolbar buttonstogetaroundintheonlinemanual.

ToopentheHelp:

- 1. Click *Help*ontheAcrobatReadermenubar.
- 2. Click ReaderOnlineGuide .

UsingHypertextLinksintheOnlineManual

Hypertextlinksarebuiltintotheonlinemanualtotakeyouquickly fromonepageofthemanualtoanother.Youcanclickonahypertext linktogodirectlyfromthelinktothetopicconnectedtothelink.

When these reencursor is on a hypertext link, the cursor changes from an open hand to a hand with a pointing index finger. When you see the cursor change, click the link to jump to the link ed to pic:

• ClickonasectiontitleintheContentstojumptothatsectionin themanual.

- ClickonapagenumberintheIndextojumptothatpageinthe manual.
- Clickonacross-referenceinthetexttojumptothesectionthat isreferenced.

SpecialFeaturesoftheUser'sManual

Threetypesofmessageswithiconsappearinthemanual:



Anoteinformsyouofspecialcircumstances.



Acautionwarnsyouofpossibledamageto equipment.



Awarningindicatesthepossibilityofpersonal injury.

Keysthatyouneedtopresstoperformcertainfunctionsareshownin themanualenclosedinanglebrackets.Forexample,

<Ctrl>

indicates the control key (Ctrlon the computer's keyboard).

If youneed to press two keys at the same time, the key names are shown joined by a plussign. For example,

<Fn+F11>

means that you should press the Fnkey and hold it and then press the F11 key.

If you are new to using computers, see the Glossary. The Glossary explains general computing terms that are used in this manual and tells you about some of the differences between portable computers and desk top computers.

Yourcomputershippedfromthefactorywithseveralsoftware programsinstalled. Thesoftware mayinclude its own on line or printed documentation. Refer to the documentation or the Helpoptions in the software form or einformation.

VisitingtheSamsungWebSite

Ifyouhaveaninternetconnection, you canvisit the Samsung Website at:

http://www.samsungpc.com

UpdatesonyourcomputerandotherSamsungproductsare periodicallyaddedtotheWebsite.

IntroducingYourComputer

YourSN6000Seriescomputerisanultra-thinlightweightportable computerthatincludesfeaturestomeetyourcomputingneedsathome orontheroad. Aportreplicatorissupplied with each SN6000Series system, see Figure 12 on page 25 form or einformation.

Figures1through3showyouthefeaturesofyourcomputer.



Figure1.FrontViewofComputer



Figure3.BottomViewofComputer

UsingYourComputerforthe FirstTime

Thissection gives you detailed information on using your computer for the first time.

AttachingtheACAdapter

Yourcomputerrunsonpowerfromthebatterythatcameinstalledin the computer of from an electrical outlet. The first time that you use your computer, fully charge the battery by attaching the AC adapter to the computer and to an electrical outlet. Your AC adapter can accept an input voltage of 100 to 120 VAC or 200 to 240 VAC.

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| _ | _ | _ | _ | 1 | |
| | | | | 1 | |
| | | | | | |

Allbatterieslosetheirchargeiftheysitunused foranextendedtimeperiod.Whennotused, yourSN6000Seriesbatterycandischargefully in2to3months.Thebatterymayhave dischargedinthetimeittookforthecomputer togofromthefactorytoyou.

ToattachtheACadapter:

- 1. PlugtheACadapterintothepowerconnectorontherightside ofthecomputer(Figure4).
- **2.** ConnectthepowercordtotheACadapterandthentoan electricaloutlet.

SamsungSN6000SeriesUser'sManual UsingYourComputerfortheFirstTime7

Figure4.ConnectingtheACAdapter

ThebatterystartschargingassoonasyouplugtheACadapterintoan electricaloutlet.Thebatterychargesfasterifthecomputeristurnedoff duringcharging.

If the battery is fully depleted and the computer is turned off, the battery charges in about 2.5 hours. If the computer is turned on, the battery charges in about 4 hours. When the battery is charging, the battery charge light is amber. When the battery is fully charged, the light turns green.

See "Using the Battery" on page 38 form or einformation on using your computer's battery.

TurningOntheComputer

Toturnonthecomputer'spowerforthefirsttime:

- 1. SlidetheLCDcoverlatchesapartandholdthem(Figure 5).
- 2. LiftuptheLCDcover.

SamsungSN6000SeriesUser'sManual



Figure5.OpeningtheComputer

3. Pressandthenreleasethepowerbutton(Figure6).

The powerlight is on when the computer's power is on.



Figure6.TurningOntheComputer'sPower

UnderstandingPOST

Whenyouturnonyourcomputer, aroutine called POST automatically runstotest the computer components. The Samsunglogo appears on the screen during POST, if you press the *ESC* keywhile the Samsung logois displayed you will see several messages on the screen (see

SamsungSN6000SeriesUser'sManual UsingYourComputerfortheFirstTime9

"BootMenu" onpage 56 for information on disabling the logoscreen). After POST is successfully completed, the computer beep sonce.

Screenmessagesarebuiltintothecomputertoreportbothnormaland abnormalsystemconditions.Ifanerrormessageappears,takeany actionsuggestedinthemessage.Ifthemessageidentifiestheerror conditionbutdoesnotsuggestanycorrectiveaction,writedownthe messageandcontactSamsungoranauthorizedSamsungservicecenter forassistance.(See"Troubleshooting"onpage87forinformationon contactingSamsung.)

AdjustingtheLCDDisplay

YoumaywishtoadjusttheLCDdisplaywhenyoubeginusingyour computer.ATFTLCDdoesnotrequireadjustmentforcontrast because the contrastisset to remain at maximum.

ToadjustthebrightnessoftheLCD:

- Press<Fn+RightArrow>toincreasethedisplaybrightness.
- Press<Fn+LeftArrow>todecreasethedisplaybrightness.

TurningOffYourComputer

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| L | | | | = | |
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| | - | - | - | - | |
| L | - | - | - | - | |
| | _ | - | _ | - | |

IfyourcomputerhasaWindowsoperatingsystem, turnoffyourcomputerbyperformingtheshutdown proceduredescribedinthissection.Otherwise, youmaylosedata.

Toturnoffthecomputer:

- 1. Click Startonthetaskbar.
- 2. Click ShutDown .
- **3.** Selecttheshutdownoption.
- 4. ClickOKorYes.
 - If the operating system is Windows 98, the computer turns off.

SamsungSN6000SeriesUser'sManual UsingYourComputerfortheFirstTime10

• If the operating system is Windows NT, your eceivea shutdown message and must press the power button to turn off the computer.

RestartingYourComputer

Youmayneedtorestart(reboot)yourcomputerwheninstalling hardwareorsoftwareorifthecomputerdoesnotrespondtoyourinput. Awarm(orsoft)bootpromptsyoutosaveyourfiles,turnsoffthe computer,andthenrestartsthecomputer.Acoldbootturnsoffthe computerwithoutsavingyourfiles.

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Donotperformacoldbootunlessyour keyboardandtouchpadhavenoeffectandyou cannotperformawarmboot.

Whenyouperformacoldboot, youlosedata unlessitwassavedtoastoragemedium.

Toperformawarm(orsoft)boot:

- 1. ClicktheStartbuttononthetaskbar.
- 2. Click ShutDown .
- 3. Select RestarttheComputer .
- 4. ClicktheYesbutton.
- 5. Saveyourfilesifprompted. Yourcomputerreboots.

Youcanalsoperformasoftbootbysavingyourfilesandpressing <Ctrl+Alt+Del>andthenclickingon ShutDown.

Youcanperformacold(orhard)bootbypressingthepowerbuttonto turnthecomputeroff, waiting fiveseconds, and then pressing the powerbutton to turn the computeron.

TipsforUsingYourComputer

The following information helps you avoid potential problems as you use your computer:

SamsungSN6000SeriesUser'sManual UsingYourComputerfortheFirstTime11

Donottrytodisassembleyourcomputer. Openingthesystemchassisvoidsyour warranty.OnlyanauthorizedSamsungservice centercanreplaceoraddanypartsinsidethe chassis.

- Followalltheinstructionsandcautionsinyourcomputeruser documentation.
- TheLCDhasapolarizedsurfaceandcanbedamagedeasily. Topreventdamage,avoidtouchingthescreen.
- UseonlySamsungapprovedACadapters,automobile adapters,airlineadapters,andmemorymodules.
- Becauseaportablecomputerissmallandhasrestrictedair flowaroundcomponents, it is more likely to overheat than a desk top computer. A fan inside your computer helps to eliminate some heat. Make sure the fan vent on the side of your computer is not blocked when you use the computer. (See Figure 2 on page 6 for the location of the vent.) Occasionally check the vent and remove any accumulated dust on the outside.
- Avoidusing orstoring the computer inextremely hotorcold areas, such as a caronahotday. Keep the computer away from heaters and out of direct sunlight. Exposure to excessive heat may damage computer components.

If you have left your computer in a hot place, let it coold own slowly to room temperature (with the LCD panel open) before using it.

- Setupyourcomputerworkareatoavoidphysicalstrain.Sit withyourbackstraightandsupportedbyyourchair.Adjust yourchairorworktablesothatyourarmsandwristscan remaininarelaxedposition,parallelwiththefloor.Avoid bendingortwistingyourwristsasyouwork.Yourhands should"float"slightlyabovethekeyboard.Refertoabookon officeergonomicsformoreinformationonsettingupyour workarea.
- Takefrequentbreaksfromworkingatthecomputertorest youreyesandstretchyourmuscles.
- Remembertosaveyourdatafilesfrequentlyandtomake backupcopiesofyourfiles.

TravelingwithYourComputer

If youare traveling by airplane, follow these tips:

- Takethecomputerwithyouascarry-onluggage.Donotcheck thecomputerwithyourbaggage.
- Allowthecomputeranddiskstogothroughthe X-raysecuritydevices.Donothand-carrydisksthroughthe walk-throughmetaldetectors,whichcancauselossofdata.
- MakesurethatthebatteryischargedortheACadapteris easilyaccessible.Youmayberequiredtoturnonthecomputer forairportsecuritypersonnel.
- Bepreparedtoturnoffthecomputerduringtakeoffand landing.
- Contactyourairlineforinformationaboutusinganoptional airlineadaptertopoweryourcomputerwhiletravelingby airplane.

HandlingSpills

Donotspillanythingonyourcomputer.Thebestwaytoavoidspillsis toavoideatinganddrinkingaroundyourcomputer.Ifyoudospill somethingonyourcomputer,turnoffyourcomputer,unplugit immediately,anddothefollowing:

- Ifyouspilliquidontheinternalkeyboardoranyexternal devices(suchasthefloppydrive),drainasmuchoftheliquid aspossible.BecarefulnottolettheliquiddripontotheLCD panel.Allowthesystemtodryforseveraldaysbeforetryingto useit.
- Ifyouspilliquidonanexternalkeyboardorkeypad,unplugit anddrainasmuchoftheliquidaspossible.Allowthe keyboardtositatroomtemperatureforafulldaybeforetrying touseit.



Sweetliquidsleaveastickyresiduethatmay causedamagedespiteyoureffortstodry.

• If yous pilliquid on the LCD panel, clean it immediately with a soft clothand denatured alcohol. Do not use water, window cleaner, acetone, aromatics olvent, ordry, rought owels to clean it.

SomeliquidsdamagethepolarizedLCD screen.lfyourscreenisdamaged,contactyour authorizedSamsungservicecenterfora replacement.

StoringtheComputerforLongPeriods

If possible, leave the AC adapter connected to the computer when the computer is not in use. This helps extend the life of the battery and keeps the battery fully charged.

If you will not be using the computer for an extended period of time (a monthormore), you should charge the battery until it is completely full. After you have done so, remove the battery from the unit.

Yourcomputerhasan87/88-keykeyboard(Figure7).Bypressing designatedkeycombinations, youcanhave access to all the key functions of a full-sized keyboard.



Figure7.Keyboard

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|---|---|---|--|
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| = | | _ | |
| - | _ | _ | |

Althoughthelayoutofthekeysonyour computer'skeyboardisdifferentfromthatona desktopcomputer'skeyboard,thekeyboard feelslikeafull-sizedkeyboardwhenyouuseit. Thedistancebetweenthekeys(thepitch)isthe sameasonafull-sizekeyboard(19mm).The travel,orspacethekeygoesdownwhen pressed,is(2.5mm).

Thekeysonthekeyboardcanbegroupedintothefollowingcategories:

• Full-sizedtypewriterkeysarearrangedlikeastandard typewriterkeyboardandareusedfortextentry.

SamsungSN6000SeriesUser'sManual

UsingtheKeyboard15

- Functionkeys, when pressed together with the <Fn>key, enables pecial functions.
- Cursorcontrolkeysmovethecursor. They may perform other functions, depending on yours of tware.
- WindowskeysopenWindowsmenusandperformother specialfunctions.

Tocleanthecomputerkeyboard, uses lightly damp cottons wabs. Scrubthekeys and the surface around the keys. Donot allow liquid to drip into the keyboard or you may damage the keyboard.

UsingtheNumericKeypad

Yourkeyboardincludesanumerickeypad, which is a group of keys that you can set to type numbers and mathematical symbols, such as the plussign (Figure 8). A number or symbol on the right corner of each keypadkey shows its numeric function.



Figure8.NumericKeypad

Press<NumLock>toturnontheembeddednumerickeypad.The numericfunctionsofthekeypadareenabledandtheNumLocklight turnson.

While the numeric functions are enabled, you can temporarily return a keytoits normal function by pressing < Fn> and the key. For example to type the letter m, press < Fn+m>.

Toturnthenumerickeypadoff,press<NumLock>again.TheNum Locklightturnsoff.

 $The <\!\! Fn\!\!>\!\! key activates special functions when it is pressed in combination with another key. Table 1 shows the special key combinations.$

| <fn>Key Combination</fn> | Function |
|------------------------------|--|
| <fn+f1></fn+f1> | <i>Printscreen:</i> InWindows98orWindowsNT,takesapictureof theopenscreenandputsitontheclipboard. |
| <fn+f2></fn+f2> | Systemrequest: Reservedforuseinsoftwareprograms. |
| <fn+f3></fn+f3> | Speed:ThiskeycombinationisnotenabledonSN6000Series computers |
| <fn+f4></fn+f4> | Backlight:TurnstheLCDdisplayoff.Pressanykey(exceptthe <fn>key)toturntheLCDdisplaybackon.</fn> |
| <fn+f5></fn+f5> | <i>CRT/LCD</i> :SwitchesthedisplaybetweentheLCD,theexternal monitor,andsimultaneousdisplayonboththeLCDandthe externalmonitor. |
| <fn+f6></fn+f6> | Gauge:Displaysthebatterygaugeintheupper-rightcornerof yourscreen. Thegaugeclosesinafewseconds.(See"MonitoringtheBattery Charge"onpage41formoreinformationonthebatterygauge.) |
| <fn+f7></fn+f7> | <i>KeyLock</i> :Locksthekeyboardandactivatespasswordprotection. Typetheuserorsupervisorpasswordandpress <enter>to unlockthekeyboard.Ifthesupervisorpasswordwasenteredon bootonlythesupervisorpasswordwillunlockthesystem.The <fn+f7>keycombinationhasnoeffectunlessapasswordis enabledinSystemSetup.TheNumLock,CapsLock,andScroll Locklightsblinkinsequencewhenthekeyboardislocked.</fn+f7></enter> |
| <fn+f8></fn+f8> | Mute: Turnstheaudiooutputonandoff. |
| <fn+f9></fn+f9> | Volumedown: Decreasestheaudiovolume. |
| <fn+f10></fn+f10> | Volumeup: Increasestheaudiovolume. |
| <fn+f11></fn+f11> | <i>Rest:</i> Putsthecomputerintorestorsuspendmode.Toresume normaloperationfromrest,pressthepowerbutton.(See"Power Menu"onpage55formoreinformationabouttherestmode.) |
| <fn+f12></fn+f12> | <i>Scroll:</i> Insomeapplications,setsthecursor-controlkeystoscroll thepageupordownwhilethecursorpositiondoesnotchange. Pressing <fn+f12>againturnsoffthescrollingfunction.</fn+f12> |

Table1.DescriptionofSpecialFunctionKeys

| <fn+up Arrow></fn+up | <i>Contrastup:</i> IncreasestheLCDcontrast.Contrastadjustmentis notneededonaTFTLCD. |
|--------------------------------------|---|
| <fn+down Arrow></fn+down | <i>Contrastdown:</i> DecreasestheLCDcontrast.Contrastadjustment isnotneededonaTFTLCD. |
| <fn+right Arrow></fn+right | Brightnessup: IncreasestheLCDbrightness. |
| <fn+left Arrow></fn+left | Brightnessdown: DecreasestheLCDbrightness. |

YourcomputerisequippedwiththeSmartPointTMtouchpad,whichis anintegrated-pointingdevicethatisusedtoperformstandardmouse functions(Figure9).Thetouchpadisanadvancedandreliable pointingdevicethatworkswithatouchofyourfinger.



Figure9.Touchpad

Tousethetouchpad:

- Placeyourfingeronthepadandmoveyourfingerinthe directionyouwantthecursortomove. Thefasteryoumove yourfinger, thefaster thecursor moves across thescreen.
- Rollyourfingerfromsidetosidetomovethecursorshort distances.
- Quicklytapyourfingeronthetouchpadtoclickanitem.
- Tapyourfingertwicetodouble-clickanitem.
- Tapanddragyourfingeronthetouchpadtoclickanddragan item.
- Pressonthetouchpadgently.Thetouchpadrespondstolight pressure.

You can also use the buttons at the bottom of the touch pad in the same way you uses tandard mouse buttons.

Forinformationonattachingandusinganotherpointingdeviceor keyboardwithyourcomputer, see "ConnectingPeripheralDevices" on page 24.

ReadingtheSystemStatusLights

SystemStatuslightsshowthestatusofcomputerfunctions.Thelights appearontheleftedgeofthecomputer(Figure10).Table2describes themeaningofthelights.



Figure10.SystemStatusLights

SamsungSN6000SeriesUser'sManual

ReadingtheSystemStatusLights20

Table2.SystemStatusLights

Icon FunctionofLight

Powerlight: Lightisonwhenthecomputer'spoweris on.Thelightblinksbetweengreenandamberwhen thebatteryislow.Thelightchangestoamberwhen thesystemispower-on-suspendmode.Thepower lightisoffifthesystemisturnedofforisinrestmode.

NumLocklight: Lightisonwhentheembedded numerickeypadisactivated.See"UsingtheNumeric Keypad"onpage16foradescriptionofthekeypad.

CapsLocklight: Lightisonwhenthecapslock functionisactivated.Whenthefunctionisactivated,all

ConnectingthePortReplicator

Turnoffyourcomputerbeforeyouconnector disconnecttheportreplicator,failingtodothis mayseriouslydamageyourcomputer.

- 1. Closerearportdoorandslidetheinnerdooropen
- 2. Movethe2latchesonthePortReplicatorintothedownposition



3. InsertthePortReplicator



SamsungSN6000SeriesUser'sManual

 $Connecting the {\it PortReplicator 22}$

4. MovethelatchesonthePortReplicatorintotheupposition.



SamsungSN6000SeriesUser'sManual

ConnectingthePortReplicator23

ConnectingPeripheralDevices

The connectors on your computer enable you to attach peripheral devices to the computer (Figure 11), additional connectors are available if you also use the factory supplied portreplicator (Figure 12).

Turnoffyourcomputerbeforeyouconnecta peripheraldevice.Connectingaperipheral devicewithyourcomputerturnedonmay seriouslydamagethedeviceoryourcomputer.



Figure11.SystemPeripheralConnectors

SamsungSN6000SeriesUser'sManual

ConnectingPeripheralDevices24



Figure12.PortReplicatorPeripheralConnectors

Table 3 shows the icon slocated near each connector and tells you the devices that you can attach to the connectors.
| lcon | Connector |
|------------|---|
| 10101 | Serialport: Plugaserialdevice, such as a serial printer, into this 9- pinport. If the device has a 25-pinconnector, you need a 25-to-9- pinserial adapter. |
| | <i>Dockingconnector:</i> Connectadockingoptiontothisconnector. See"DockingOptions"onpage96formoreinformation. |
| • | USBport: ConnectUSBdevicestothisport.USBinput/output devicesincludekeyboards,pointingdevices,andmonitors. |
| ð 📟 | <i>PS/2mouseandkeyboardport:</i> ConnectaPS/2-compatible mouseorexternalkeyboardorkeypadtothisport.Makesureyour computeristurnedoffwhenyouattachperipheralstotheport. |
| | Youcanusethecomputer'stouchpadandaPS/2keyboardatthe sametime.lfyouattachaPS/2mousetotheport,thecomputer's touchpadmaybedisabled.SeePS/2MouseConfigurationon page50formoreinformation |
| \bigcirc | Audioheadphone-outjack: Connectstereoheadphonesor speakerstothisjack.Speakersconnectedtothisjackoverridethe onboardspeakers. |
| [D) | <i>Microphonejack:</i> Connectanexternalmicrophonetothisjack.A microphoneconnectedtothisjackoverridestheinternal microphone. |
| | <i>Externalmoduleport:</i> Connectoneendoftheexternalmodule cabletothisconnectorandtheotherendtotheexternalmodule. See"ConnectingExternalModules"onpage29formore information. |
| À | <i>Mouseport:</i> ConnectaPS/2-compatiblemousetothisport.Make sureyourcomputeristurnedoffwhenyouattachperipheralstothe port. |
| 0 | IfyouattachaPS/2mousetotheport,thecomputer'stouchpad maybedisabled.SeePS/2MouseConfigurationonpage50for moreinformation |

SamsungSN6000SeriesUser'sManual



Keyboardport: Connectanexternalkeyboardorkeypadtothis port.Makesureyourcomputeristurnedoffwhenyouattach peripheralstotheport.



Parallelport: Plugaparalleldevice, such as a parallel printeror network adapter, into this 25-pinport.



Videoport: Plugtheinterfacecableofanexternalmonitorintothis 15-pinconnectorandthenplugthemonitorpowercordintoa groundedoutlet.



Joystick/MIDIport: Connectajoystickorothergamepointing devicetothisport. YoucanalsoconnectaMIDIdevicetothisport.



TV-out(composite)port: PluganRCAorPhonoplugconnector fromthisportintoanexternalmonitortogetvideoonly.Noaudiois transmittedviathisport.YoucannotenableTVOutdisplayunless thecurrentscreenresolutionislowerthan1024x768.

UsingtheTV-out(composite)Port

ThisfeatureisonlyavailablewithWindows98.UsingtheTV-out (composite)portontheportreplicator,acompatibleTVorother compatibledisplaydevicecanbeconnectedandanimagedisplayed. TocheckifandhowyourTVdisplaystheTV-out(composite)signal seethedocumentationincludedwithyourTV.

| P | | | | - | |
|---|---|---|---|---|--|
| | | | | | |
| | = | | | _ | |
| | - | - | - | - | |
| | = | | | _ | |
| | - | - | _ | - | |

YoucannotenableTVOutdisplayunlessthe currentscreenresolutionislowerthan 1024x768,See"ResolutionandColorDepth"on page69forinformationonchangingyour screenresolution.

ToenableTV-out:

1. EnterSystemSetupandundertheAdvancedmenu , set *TV Standard*totheappropriatestandardforyourTV.(see"Using SystemSetup"forinformationonsettingoptions.)

- 2. Rebootyourcomputer.
- 3. ConnecttheTVtotheTV-Out(composite)portusingan appropriatecable,Figure13onpage28
- 4. Clickthe *Start*buttonontheWindows98taskbar.
- 5. Select Settings.
- 6. Click ControlPanel .TheControlPanelwindowappears.
- 7. Double-clickthe *Display*icon.TheDisplayPropertieswindow appears.
- 8. Clickthe *Settings*tab.TheSettingsscreenappears.
- **9.** Clickthe *AdvancedProperties* button. TheAdvanced Propertiesscreenappears.
- **10.** Clickthe *Displays*tab.ThesystemwillnowtrytodetectaTV connectedtotheTV-out(composite)port.
- 11. PutatickintheboxundertheTVsymbol



If the TV symbol is greyed out then the system has not detected a TV, check that the TV standard in the BIOS is set correctly and that the TV is connected properly.

12. Click OK and followthepromptsthatappearonthescreen.



Figure13.AttachingaTVtotheTV-out(composite)port

SamsungSN6000SeriesUser'sManual

ConnectingPeripheralDevices28

ConnectingExternalModules

SN6000computersshipfromthefactorywithanexternalfloppydrive module.ForinformationabouttheoptionalCD-ROMandDVD-ROM drives, see "UsingOptions" on page 91. These devices are connected to the computer's external module portusing the external module cable.

IfyouroperatingsystemisWindows98youcan usetheSmartBayutilitytohot-swapthe externalmodules.IfyoudonotuseWindows 98,makesurethatthecomputer'spowerisoff beforeyouremoveorinstallanyexternal modules.

Onlyoneexternalmodulecanbeusedatanyonetime. Attachoneend of the external module cable to the module and the other to the external module port on the computer (Figure 14).



Figure14.AttachingtheExternalModulestotheComputer

SamsungSN6000SeriesUser'sManual

ConnectingExternalModules29

The external module cable must be inserted as shown in Figure 14. To insert the cable correctly, make sure that

- The cable connector labeled *System* is connected to the Computer.
- The cable connector labeled *Unit* is connected to the external module.
- Securethecablebytighteningthethumbscrews.

Yourcomputer's operating system automatically recognises the device in the Smart Bay and configure syour computer accordingly.



Toremovethecable:

- 1. Loosenthethumbscrews
- **2.** Pullthecableconnectorsawayfromtheexternalmoduleand thecomputer.

UsingtheSmartBayUtility

 $\label{eq:spectrum} If your computers hipped with Windows 98, you can use the Smart Bay utility to hot-swapy our external modules.$

ToopentheSmartBayutility

- 1. ClicktheStartbuttonontheWindowstaskbar.
- 2. Select SmartBayHotswapUtility .

Toremoveanexternalmodule:

- 1. Openthe SmartBayHotswapUtility .
- 2. Select *RemoveDevice* and click *Ok*.
- 3. Click *Yes*ontheconfimationscreen
- **4.** Remove the external module by either disconnecting the cable from the computer or from the external module.

SamsungSN6000SeriesUser'sManual

5. Click *Ok*.

Toinsertanexternalmodule:

- 1. Openthe SmartBayHotswapUtility .
- 2. Select *InsertDevice* and click *Ok*.
- 3. Connecttheexternalmoduletothecomputerusingtheexternal modulecable.Makesureallconnectorsarecorrectlyattached.
- 4. Click *Ok*toallowyourcomputertodetecttheexternalmodule.

If you have difficulty ingetting an external module detected, go through the remove procedure and then the insert procedure again.

The computer comes with an external 1.44-MB, 3.5-inch, high-density floppy drive, which can read, write to, and form at the following disks:

- Ahigh-density, 3.5-inchdisk, which stores 1.44 MB of data.
- Adouble-density, 3.5-inchdisk, which stores 720 KB of data.



Thefloppydriveinyourportablecomputeris smallerbutmorepower-efficientthanafloppy driveinadesktopcomputer.Togetthebest performancefromyourfloppydrive,handlethe drivecarefullywheninstallingorremovingit andusehigh-qualityfloppydisks.

Thefloppydriveconnects externally to your computer by cable to a connector on the outside of the computer. For information on installing the floppy drive, see "Connecting External Modules" on page 29 and see "Using the Smart Bay Utility" on page 30.

Touseafloppydisk, insertitint othefloppydrive (Figure 15).



Figure15.InsertingaFloppyDisk

Toremoveafloppydisk, press the eject but to nonthefloppy drive.

Thedrivelightonthefloppydriveisgreenwhenthecomputerwrites toorreadsfromafloppydisk.Donotremoveadiskwhenthislightis on.

Toprotectthedataonyourfloppydisks,followtheseguidelines:

• Keepdisksawayfromexcessiveheat,directsunlight,and liquids.

SamsungSN6000SeriesUser'sManual

UsingtheFloppyDrive32

• Keepmagnetsandanydevicethatcontainsamagnet(likethe telephone)awayfromyourdisks.



Magneticfieldscandestroytheinformationon adisk.

- Donotwritedirectlyonalabelonyourdisk; instead, writeon adisklabelfirst and attach the label to the disk.
- Makecopiesofallyourimportantdisks.

SamsungSN6000SeriesUser'sManual

UsingtheFloppyDrive33

UsingtheCD-ROMDrive

The external CD-ROM drive module must be puchased separatly, see "Using Options" on page 91. The CD-ROM drive connects externally toyour computer by cable to a connector on the outside of the computer. For information on installing the CD-ROM drive, see "Connecting External Modules" on page 29 and see "Using the Smart Bay Utility" on page 30.

Compactdiscsaredesignedsothatyoucaneasilyinsertoneintothe computerwhenyouneedit,andthenremoveit:

- 1. PressthebuttonontheCD-ROMdrive,andthetrayslidesout. (Donotleanonthetray;itdoesnotsupportmuchweight.)
- 2. InsertaCD,labelsideup(orremoveadisc,ifyouhavefinished usingit).
- 3. Pushthetrayingentlytoclosethedrivetray(Figure16).

Alighton the drive tray is on when the computer is reading from a CD. Do not remove a disc when this light is on.



Figure16.UsingtheCD-ROMDrive

InstallandstartaCD-basedprogramasyouwouldaprogramona floppydisk.Seeyouroperatingsystemdocumentationformore informationonrunningprograms.

ThenameoftheCD-ROMdriveistheletterfollowingtheletter assignedtoyourlastharddrive.Forinstance,ifyouhaveonehard drivewithonlyoneharddrivepartition,theharddriveisdriveCand theCD-ROMdriveisdriveD.

If necessary, you can use the emergency eject but ton to open the CD-ROM drive. To use the emergency eject but ton, turn the computer's power of fand insert as mallobject, like abent paper clip, into the hole to press the but ton.



Donotplacereflectiveobjectsinthediscslot becauseofpossiblehazardouslaser emissions.

ThelaserbeamusedinthisCD-ROMdriveis harmfultotheeyes.Donotattemptto disassembletheCD-ROMdrive.Referservicing toyourauthorizedSamsungservicecenter.

Theon-boardaudiohardwareandsoftwareofyourcomputerenable the computer toplay audiocompact discs. If you wish to do so, you can attachexternal speakers to the audio-line-outjack.

Toplayanaudiocompactdisc:

- 1. InsertacompactdiscintoyourCD-ROMdrive:
 - **a.** PressthebuttonontheCD-ROMdrive,anditstray slidesout.
 - b. InsertaCD, labelsideup.
 - **c.** Pushthetrayintoclosethedrivetray.TheCDPlayer buttonappearsonthetaskbar.

Thediscbeginstoplay.

AlightonthedrivetrayisonwhenthecomputerplaysaCD. Donotremoveadiscwhenthislightison.

- 2. Toadjustthesound, use the volume adjustment dialon theside of the computer or press the following key combinations:
 - <Fn+F8>mutesthevolume.
 - <Fn+F9>decreasesvolume.
 - <Fn+F10>increasesvolume.

ToremovetheCD:

SamsungSN6000SeriesUser'sManual

1. ClicktheCDPlayerbuttonontheWindowstaskbartoopenthe CDPlayerwindow(Figure 17).

| | | Play |
|-----------------------|------------------|-------|
| | | Stop |
| | | Eject |
| Artist: New Artist | <d:></d:> | |
| Title: New Title | | |
| Track 1 | <01> | |
| Total Play: 69:53 m:s | Track: 08:43 m:s | |

Figure17.CDPlayerWindow

- 2. ClicktheStopbuttonintheCDPlayerWindow.
- 3. ClicktheEjectbuttonontheCDPlayerwindoworpressthe buttononyourCD-ROMdrive.Thedrivetrayopensandyou canremovethediscfromtheCD-ROMdrive.

 $\label{eq:constraint} For more information on playing compact discs, see the Helpmenu in the CDP layer window.$

UsingtheHardDrive

YourcomputerincludesanIDEharddrive.TheIDEharddrivecan storethedataandprogramsyourcomputeruses.

Although the storage capacity of hard drives varies according to model, any hard drive holds much more than a floppy disk does. Also, the computer reads and works with a hard drive more rapidly than with a floppy disk.

Onceinformationissavedonaharddrive, itremains the reuntilitis overwritten. Samsung harddrive heads park automatically when you turn off your computer.

Theharddrivethatcomeswithyourcomputer hasalreadybeenformatted.Donotformatthe harddrive.Doingsodestroysalldata containedonthedrive.lfyouneedtoformator erasealldataonyourharddrive,refertothe manualforyouroperatingsystem.

The drive iny our computer is divided into partitions. Each partition is 2GB or less so that the partitions can use a 16-bit file allocation table (FAT-16). The file allocation table enables the partition stolocate files and directories. Your computer recognizes each partition as a separate drive, for example, if a hard drive has two partitions, they could be recognized as drive Canddrive D.

AlthoughWindows98canworkwithFAT-16orFAT-32(a32-bitfile allocationtable), yourcomputerhasbeensupplied withFAT-16as there are software compatibility issues withFAT-32. Olders of tware that you may have (16-bits of tware) may require FAT-16 tor un. Similarly Windows NT4.0 can use FAT-16 or NTFS (the Windows NTfiles ystem). There are utilities included with Windows98 and Windows NT4.0 to convert from FAT-16 to FAT-32 or NTFS, see the documentation included with your operating system for more information.



ItisnotpossibletoconvertfromFAT-32or NTFStoFAT-16withoutreformattingyourhard drive. Yourcomputerusesasmartrechargeablelithium-ionbatterypackfor powerwhentheACadapterisnotattachedtoanelectricaloutlet.The smartbatterygivesaaccuratemeasurementofthecurrentbattery capacitywhichhelpsextendoperatingtimebyenablingeffective powermanagementinoperatingsystemsthattakeadvantageofthe accurateinformationsuppliedbythebattery.

ChargingtheBattery

Yourcomputer's battery starts charging automatically when you connect the AC adapter to the computer. If the computer is off, the battery charges faster than if the computer's power is on.

Approximatechargingtimesforyourbatteryare

- 2.5hourswiththecomputeroff
- 4hourswiththecomputeron

While the battery is charging, the battery charge light on the computer is amber (see Figure 10 on page 20 for the location of the battery charge light). When the battery is fully charged, the light changes to green.

Whenyouuseanewbatterypackforthefirsttimeoruseabatteryafter alongperiodofstorage,theinitialbatterylifeisshorterthannormal. Normalbatteryliferesumesafterafewdischarge-rechargecycles,see BatteryCalibartioninsystemsetuponpage58formoreinfomationon dischargingthebattery.

| ſ | |
|-----|-------|
| I | L |
| I | L |
| II. | L |

Allbatterieseventuallywearoutandlosethe abilitytoholdacharge.Youmayneedto replaceyourbatterypackafterayearof averageusage.

Followtheserulesforchargingyourbattery:

• Abatterynormallydischargespowerwhennotusedforlong periodsoftime.Besuretorechargethebatteryeverytwo monthswhenitisnotinuse.

- Makeitapracticetodischargeyourbatteryfullybefore rechargingthebattery. This can help extend the life of the battery.
- Donotattempttochargethebatteryintemperaturesofunder 41°F(5 ° C)orover95 °F(35 °C.)

SafelyUsingtheACAdapterandBatteries

FollowtheseguidelinestosafelyusetheACadapterandbatteries:

- TurnyourequipmentoffandunplugtheACadapterifyou accidentally:
 - Exposetheequipmenttoliquid.
 - Drop, jar, ordamage the computer.
- UseonlySamsung-approvedbatteries,ACadaptersandauto/ airlineadapters.
- Donotdisassemblethebattery,heatitabove122°F(50°C),or burnit.Thebatteryusedinthiscomputermaycauseafireor chemicalburnifmistreated.
- Yourcomputer'ssmartrechargeablebatterymaybeconsidered hazardouswaste.Ifyoureplaceyourbatterywithanewone:
 - Keeptheoldbatteryoutofthereachofchildren.
 - Disposeoftheoldbatterypromptly.
 - Makesurethatyoufollowallstateandlocal requirementswhenyoudisposeoftheoldbattery.

RemovingandInsertingtheBattery

Yourcomputercomeswith the battery pack inserted. To remove the battery pack:

- 1. Turnthecomputer'spoweroff.
- **2.** ClosetheLCDpanelandturnthecomputeroversothatthe bottomoftheunitfacesup.



Figure19.InsertingtheBattery

MonitoringtheBatteryCharge

Batterylifeisaffectedbyfactorssuchasthepower-management settingsinSystemSetup,theapplicationsyouuse,andthebrightness oftheLCD.Undernormalusage,thebatterychargelasts approximately2.5hours.



Batterylifeestimatesaresubjecttovariation. Theactuallifeofyourbatterymaybelessthan theestimatesgiveninthedocumentation.

Youcanmonitorthechargeofthebatterypackinstalledinyour computerthroughthebatterygauge.

UsingtheBatteryGauge

 $You can display the battery gauge while you are in any program. Press <<\!\!rn+F6\!\!>\!\!todisplay the battery gauge on the LCD (Figure 20).$



Figure20.BatteryGauge

Thegaugehastwosections:

- Thetopsectionofthegaugeshowsapictureofabatteryto indicatethatthecomputerisoperatingfromthebattery.
- Thebottomsectionofthegaugeshowsyoutheamountof batterychargeremaining.

While the battery gauge is displayed, all keys are disabled. The battery gauge closes in a few seconds.

UsingPowerProfilertoMonitortheBattery

PowerProfilerenablesyoutosetpower-managementoptionsfor computersshippedwithWindowsNTinstalled.TousePowerProfiler tomonitorthebatterycharge,placethecursoronthebatteryiconinthe rightcornerofthetaskbar.PowerProfilershowsyoutheamountof batterychargeremaining.

Thecolorofthebatteryiconalsoindicatesapproximatebatterycharge:

- Green:Chargeisadequatetopowercomputer.
- Yellow:Chargeislow.
- Red:Chargeisverylow.

YoucandetermineatwhatbatterychargelevelPowerProfilershows the low and very low colors. The default setting for the very low level is 20 percent battery charge remaining.

TosetbatterymonitoringoptionsinPowerProfiler:

SamsungSN6000SeriesUser'sManual

UsingtheBattery42

- 1. Double-clickthePowerProfilerbatteryicontoopenthe software.
- 2. ClicktheBatterytab.
- 3. Setoptionsunder BatteryStatusandAlarmSettings .

FormoreinformationonPowerProfiler,seetheHelpoptioninthe PowerProfilersoftware.

BatteryWarnings

Yourcomputergivesyouthefollowinglow-batterywarnings(Table 4).

| Warnings | Condition | ActiontoTake |
|--|--|--|
| Thecomputerbeeps5 times(low-pitched beeps).InWindows98, abattery-lowwarning appearsonscreen. | Batterylow:Thebattery chargeisabout10 percent.Approximately 5–10minutesofbattery chargeisleft. | Saveyourworkandturn offyourcomputer,inserta fullychargedbatteryto continue.UsetheAC adaptertopowerthe computer. |
| Thecomputerbeeps5 times(high-pitched beeps),withashorttime betweenbeeps.Aftera shorttime,thecomputer automaticallygoesinto restmode. | Batteryverylow:The batterychargeisabout3 percent. | UsetheACadapterto powerthecomputerand chargethebattery. |

Table4.BatteryWarnings

 $\label{eq:linear} If you cannot run your computer from the battery and the battery will not charge when you attach the AC adapter, the problem may be that$

- Thebatterytemperatureisover95°F(35°C)orbelow41°F (5°C).Ifyouthinkthebatterytemperatureistoohotortoo cold,turnoffthecomputer,removethebattery,andletthe batteryreachroomtemperature.Thentrychargingthebattery again.
- Thebatteryisdefective.Replacethebatterywithanew battery.

SamsungSN6000SeriesUser'sManual

UsingtheBattery43

SamsungSN6000SeriesUser'sManual

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TostartSystemSetup,turnonyourcomputerandthenpress<F2> whenprompted.TheSystemSetupscreenappears.

The topof the System Setup screen has a menubar with the selections listed in Table 5.

| Menu | Function |
|----------|---|
| Main | Changesthebasicsystemconfiguration. |
| Advanced | Configuresadvancedfeaturesonyour computer. |
| Security | Enablessecurityfeatures,including passwordsandbackupandvirus-check reminders. |
| Power | Configurespower-managementfeatures. |
| Boot | Specifiestheorderofbootdevices. |
| Exit | SpecifieshowtoexitSystemSetup. |

Table5.SystemSetupMenus

Toopenamenu, use the left or right arrow keys to select the menu name.

Table6liststhekeysyoucanusetonavigatethroughSystemSetup.

| Navigation Key | Alternate Key | Function |
|---|---------------------|---|
| <f1></f1> | <alt+h></alt+h> | DisplaystheGeneralHelpwindow. |
| <esc></esc> | <alt+f5></alt+f5> | Exitsthecurrentmenu. |
| <leftarrow> and<right Arrow>keys</right </leftarrow> | Keypad arrowkeys | Selectadifferentmenu. |
| <uparrow> and<down Arrow>keys</down </uparrow> | Keypad arrowkeys | Movethecursorupanddownbetween fieldsinthecurrentmenu. |

Table6.SystemSetupNavigationKeys

SamsungSN6000SeriesUser'sManual

UsingSystemSetup45

| <tab></tab> | | Movesthecursorforwardthroughthe cellsforahighlightedfield.Ifthefield hasonlyonecell,the <tab>keymoves thecursordowntothenextfield.</tab> |
|-------------------------|--------------------------|---|
| <tab+shift></tab+shift> | | Movesthecursorbackwardthroughthe cellsforahighlightedfield.Ifthefield hasonlyonecell,the <tab+shift>key combinationmovesthecursoruptothe previousfield.</tab+shift> |
| <home></home> | <pgup></pgup> | Movesthecursortothefieldatthetopof thewindow. |
| <end></end> | <pgdn></pgdn> | Movesthecursortothefieldatthe bottomofthewindow. |
| <f5></f5> | <-> | Scrollsbackwardsthroughtheoptions forthehighlightedfield. |
| <f6></f6> | <+>or <space></space> | Scrollsforwardthroughtheoptionsfor the highlighted field. |
| <f9></f9> | | SetsalltheparametersinSystemSetup totheirdefaultvalues. |
| <f10></f10> | | ExitsSystemSetupandsavesthe changes. |
| <enter></enter> | | Executescommandsoropensa submenu. |

Anarrowsymbolappearingtotheleftofafieldindicatesthatyoucan openasubmenufromthisfield.Asubmenucontainsadditionaloptions forafield.Toopenasubmenu,highlightthefieldandpress<Enter>. Usethesamekeystoentervaluesandmovefromfieldtofieldwithin submenusasyouusewithinmenus.

 $\label{eq:screen} Whenyouhighlightafield, information about the field appears on the rights ideof the screen. System Setupals oprovides a General Help screen that can be open ed from any menuby pressing <F1> or <Alt+H>. The General Help screen lists then avigation keys with their corresponding alternates and functions.$

Whenascrollbarappearstotherightofahelpwindow,more informationisavailablethancanbedisplayedinthewindow.Usethe <PgUp> and<PgDn> keysorthe<UpArrow>and<DownArrow> keystoscrollthroughtheentirehelpdocument.Press<Home>to displaythefirstpage,orpress<End>togotothelastpage.Toexitthe helpwindow,press<Enter>or <Esc>. Ifyourcomputerwillnotbootafteryouhavechangedsettingsin SystemSetupandexitedtheprogram,rebootandpress<F2>toreenter SystemSetup.OnceinSystemSetup,youcantrytochangethevalues thatcausedyourcomputerboottofail.Iftheproblempersists,press <F9>toloadthedefaultvalues.

MainMenu

WhenyouopenSystemSetup,theMainmenuappears.Youcanmake changestoyourcomputer'sbasicsystemconfigurationfrom this menu.Thefieldsdisplayedinthismenuaredescribedbelow.

SystemTime: Setsyourcomputertothetimethatyouspecify,usually thecurrenttime.Enterthehour,minute,andsecondintheformat *hh:mm:ss*.Usea24-hourclock . Usethetabkeytomovebetweenthe hour,minute,andsecondcells.Usethehyphenkey<->or<Space>bar todecreaseorincreasethenumbers.

SystemDate: Setsyourcomputertothedatethatyouspecify,usually the current date. Enterthemonth, day, and year in the format *mm: dd: yyyy.* Use the tabkey to move between the month, day, and year cells. Use the hyphenkey <-> or <Space> bartodecrease or increase the numbers. This field support syear dates of 2000 and beyond.

LegacyDisketteA: SpecifiesadrivetypeforfloppydriveA.DriveA isthefloppydrivethatisattachedusingtheexternalmodulecableto yourcomputer, see "UsingtheFloppyDrive" on page 32. *DisketteA* options are *Disabled* and *1.44/1.25MB3* ½ (default).

IDEAdapter1 and **IDEAdapter2**: TheMainmenucontainstwoIDE adapterfieldstoconfigurethesedrives. *IDEAdapter1* definesthehard driveinstalledinthecomputer. *IDEAdapter2* definestheCD-ROM drive.

Toconfigureyourharddrive, move the cursor to select the *IDE Adapter1* field in the System Setup Mainmenu, and then press the <Enter>key. The IDE Adapter submenuappears.

Normally, you can use the *Auto* field in the submenuto automatically set the values for the other fields in the submenu. Manually set the other fields in this submenu only if the drive you have installed in your computer is not recognized by System Setup.

Afteryoumakeyourselectionsfromthissubmenu,pressthe<Esc> keytoexitbacktotheMainmenu.

Youdonotneedtoconfigurethedrivethatcamewithyourcomputer.

Beforeattemptingtoconfigureaharddrive, makesureyouhavetheconfiguration informationsuppliedbythemanufacturerof theharddrive.Incorrectdrivesettingscan causeyourcomputertomalfunction.

EachIDEadapterfieldcallsupasubmenu. The following fields are found in the submenu:

Type: Configuresthedrivetype.Optionsare Auto, None, DVD/CD-ROMand User.Allremainingfieldsinthissubmenu arethenfilledwiththecorrectvaluesforthedisktype.Ifyou donothavethedocumentationthatcamewithyourharddrive, trytousethe Autooptionasdescribedabove.

Toconfigureadrivethatisnotoneofthe39standarddrive types, specify *User*. Manually enterthenumber of cylinders, heads, and sectors for your drive. Refer to your drive's user documentation or look on the drivet oobtain this information.

If nodrive is installed or if you are removing a drive and not replacing it, select *None*.

Cylinders: Configuresthenumberofcylindersforthehard drive.Refertoyourdrive'suserdocumentationorlookonthe drivetoobtainthisinformation.Beforeyoucanmakechanges tothisfield,the *Type*fieldmustbesetto *User*.

Heads: Configuresthenumberofread/writeheadsforthehard drive.Refertoyourdrive'suserdocumentationorlookonthe drivetodeterminethecorrectvaluetoenterforthisfield. Beforeyoucanmakechangestothisfield,the *Type*fieldmust besetto *User*.

Sectors: Configuresthenumberofsectorspertrackforthe harddrive.Refertoyourdrive'suserdocumentationorlookon thedrivetodeterminethecorrectvaluetoenterforthisfield. Beforeyoucanmakechangestothisfield,the *Type*fieldmust besetto *User*.

MaximumCapacity : Displaysthemaximumcapacityofyour harddrive.Thisfieldisforreferenceonly

SamsungSN6000SeriesUser'sManual

UsingSystemSetup48

Multi-SectorTransfers: Setsthenumberofsectorsperblock tothehighestnumbersupportedbythedrive.Configuration optionsare *Disabled*,2Sectors,4Sectors,8Sectors, and 16 Sectors. Thedefaultsettingforthisfielddependsonthetypeof harddriveinstalledinyourcomputer.Beforeyoucanmake changestothisfield,the *Type*fieldmustbesetto *Useror DVD/CD-ROM.*

LBAModeControl: Enablesordisables28-bitaddressingof theharddrive, without regardforcylinders, heads, and sectors. Note that enabling this field may decrease the access speed of the hard drive. The default setting for this field depends on the type of hard drive installed iny our computer. Before you can make changes to this field, the *Type* field must be set to *User* or *DVD/CD-ROM*.

32BitI/O: Enablesordisables32-BitI/O.When *Enabled* (default), yourharddrivecanworkwithapplicationswith32-bitinputandoutput.Ifthefieldis *Disabled*, yourcomputer workswith16-bitinputandoutputandhaslowerperformance.

TransferMode :Selectsthemethodfortransferringdatabetweentheharddriveandsystemmemory.Refertoyourdrive'suserdocumentationtospecifythecorrectoptionforthisfield.Optionsare Standard;FastPIO1,FastPIO2,FastPIO3,FastPIO4,FPIO3/DMA1andFPIO4/DMA2.Beforeyoucanmakechangestothisfield,the Typefieldmustbesetto Useror DVD/CD-ROM.

SMARTMonitoring:SMART(self-monitoringanalysisand reportingtechnology)softwaremonitorstheperformanceof yourcomputer'sIDEharddrive.WhentheSMARTDevice Monitoringfieldisenabled,youreceiveawarningmessageif theSMARTsoftwaredetectsanimpendingdrivefailure.This fieldisforreferenceonly.

UltraDMAMode: EnablestheharddrivetouseultraDMA transfermodetotransferdatabetweenthedriveandsystem memory.Optionsare *Disabled,Mode0,Mode1* and*Mode2*. Setthe *Type*fieldto *Auto*toselecttheoptimumtransfermode

MemoryCache: Opensasubmenuthatenablesordisablesexternal cachememory.Cachememoryimprovessystemperformanceby keepingfrequentlyusedcomputerinstructionsinmemorywithafaster accesstimethanDRAM.

Thesubmenufieldsare:

MemoryCache : Enables (default)or *disables*yourcomputer's (level2)cachememory.Normally,donotdisablethecache memoryunlessaprogram'sdocumentationspecifiesthatthe computercachememorymustbedisabled.

Cache ExtendedMemoryArea: Controlsthecachingof systemmemoryover1MB.Optionsare WriteBack (default), uncached, WriteThrough and WriteProtect .Normally,Write Backistheoptimalsettingbutifyouareexperiencing problemstrychangingthessettings.

CacheD400-D7FF: Enables or *disables*(default)cachingof shadowedoptionROMsintheD400-D7FFregion.

CacheD800-DBFF: Enables or disables (default) caching of shadowed option ROMs in the D800-DBFF region.

SystemMemory: Displays the amount of conventional memory detected by your computer during startup. This field is for reference only.

ExtendedMemory: Displays the amount of extended memory detected by your computer during startup. This field is for reference only.

thisfieldare *SingleMouse* (default)and *DualMouse* .Ifyou setthisfieldto *SingleMouse*, thetouchpadmouseisdisabled whenanexternalPS/2mouseisattached.Select *DualMouse* tohaveboththetouchpadmouseandthePS/2mouseenabled atthesametime.

I/ODeviceConfiguration: Opensthe *I/ODeviceConfiguration* submenuifyoupress<Enter>whenthisfieldishighlighted.Ifyou attempttosettwoportstothesamesettings,thefieldswillbemarked withasterisks.

Thesubmenucontainsthesefields:

SerialportA: ConfiguresserialportA. Theoptionsforthis fieldare *Enabled*(default)and *Disabled*. If youset this field to *Enabled*, you can set the *BaseI/OAddress* field to *3F8IRQ4* (default), *2F8IRQ3*, *3E8IRQ4*, or *2E8IRQ3*. When the field is set to *Enabled*, the computer's operating system uses the default configuration or the configuration you choose. If you select *Disabled*, you free upan IRQ for use by an other device.

SerialportB: Configurestheinfraredport.Theoptionsfor thisfieldare *Auto*, *Enabled*(default)and *Disabled*.Ifyouset thisfieldto *Enabled*,youcansetthe *Basel/OAddress* field, the *Mode*fieldandtheDMAchannelfield.Settingsforthe *Basel/OAddress* are *3F8IRQ4*,2*F8IRQ3* (default), *3E8 IRQ4*,or *2E8IRQ3*.Settingsforthemodefieldare *FIR* (default), *Normal*, *IrDA*and *ASK-IR*.Settingthemodefieldto *FIR*(fastinfrared)enablesyoutosetthe *DMA channel*to3 (default)or1.Select *Normal*toenableasecondphysicalserial port.

When the *SerialportB* field is set to *Enabled*, the computer's operating system uses the default configuration or the configuration you choose. If you select *Disabled*, you free up an IRQ for use by an other device.

Parallelport: Configurestheparallelport. Theoptionsforthis fieldare *Auto*, *Enabled*(default)and *Disabled*. If youset this field to *Enabled*, you can set the *Mode* field and the *Basel/O Address* field. Set tings for the BaseI/O Address field are *378 IRQ7* (default), *378IRQ5*, *278IRQ7* and *278IRQ5*. Set tings for the *Mode* are *Outputonly*, *Bi-directional*, *EPP* (enhanced parallelport), and *ECP* (default, extended capabilities port). Selecting the ECP set tingenables you to set the DMAC hannel to 1, 2, or 3 .

SamsungSN6000SeriesUser'sManual

UsingSystemSetup51

When the *Parallelport* field is setto *Enabled*, the computer's operating system uses the default configuration on the configuration you choose. If you select *Disabled*, you free up an IRQ for use by an other device. If *Auto* is selected the BIOS or the computer's operating system chooses the configuration

Floppydiskcontroller: Configuresthefloppydiskcontroller. Theoptionsforthisfieldare *Enabled*(default), *Auto*, and *Disabled*. When the *Floppydiskcontroller* fieldissetto *Enabled*, the computer's operating system uses the default configuration for the controller. Selecting *Auto* enables the operating system or the BIOS to configure the port.

InstalledO/S: Selecttheoperatingsysteminstalledonyourcomputer. Optionsare *Win95/Win98APM*, *Win98ACPI/WinNT5.0* and *Other*. Setthisfieldto *Other*ifyourcomputerusesanoperatingsystemthatis notplugandplaycompliant,suchasWindowsNT4.0.Withan operatingsystemthatisnotplugandplaycompliant,youmanually changethesettingsfortheCOM1,COM2,andLPTports.TheBIOS willrecognizethenewsettings.Choosinganincorrectsettingmay causesomeoperatingsystemstobehaveunexpectedly.

Boot-timeLogoScreen :EnablestheSamsunglogoscreenduring POST.Theoptionsare *Enabled*(default)and *Disabled*.Toviewthe POSTscreenduringbootchoose *Disabled*.

QuickBootMode : Enablescertaindiagnosticstobeskippedduring POSTwhichdecreasesthetimeneededtobootthesystem. Theoptions are *Enabled* (default) and *Disabled*.

CPUBIOSUpdate :EnablesCPUMicroCodeupdatesduringPOST. Theoptionsare *Enabled*(default)and *Disabled*.

USBdevice: ConfigurestheUSBcontroller.Theoptionsforthisfield are *Enabled* and *Disabled*(default). When the *USBdevice* field isset to *Enabled*, the computer's operating system uses the default configuration for the controller.If you select *Disabled*, you free upan IRQ for use by an other device.

ScreenExpansion: Enables the expansion of the screen during boot. When your computer starts, the screens are in 640x480 resolution during boot and the nautomatically change to the resolution you have specified in the Windows settings. When this field is enabled, the opening screens are expanded beyond 640x480. The default is *Enabled*.

TVStandard: SelectstheTVStandardtobeusedwhenusingtheTV out(composite)port.Optionsare NTSC, PAL(default), PAL-M, PAL-60, NTSC-Jand SCART-PAL.

LocalBusIDEadapter: EnablestheintegratedIDElocalbus adapters.Optionsare *Both*(default), *Disabled*,*Primary* and *Secondary*.The *Both*optionenablesboththeprimaryIDEadapter(for theharddrive)andthesecondaryIDEadapter(fortheCD-ROMdrive) onthecomputer.

LargeDiskAccessMode: Enablesyourcomputer's operating system towork with drives larger than 540 MB. Choose DOS (default) for Microsoftoperating systems. Choose Other for any other operating systems.

SecurityMenu

Selecting *Security*fromthemenubardisplaystheSecuritymenu.Your computer'sadvancedsecuritysystemallowsyoutosettwodifferent passwordstopreventunauthorizedaccesstosystemresources,data, andSystemSetup.FromtheSecuritymenu,youcanenableaboot password,diskaccess,asystembackupreminder,andaviruscheck reminder.

Securityfieldsmarkedwithanasteriskcanonlybechangedifyoustart SystemSetupwithasystemsupervisorpasswordorifnopasswordsare ineffect.Youcannotaccessthesefieldswithauserpassword.

SetUserPassword: Enablesyoutosetauserpasswordtocontrol accesstothesystematboot.See"CreatingaPassword"onpage59for instructionsonsettingapassword.Theuserpasswordallowsrestricted accesstotheSystemSetupSecuritymenu;theuserhasaccessonlyto changinghisownpasswordandtoenablingordisabling *Passwordon boot*.Asupervisorpasswordmustbesetbeforeauserpasswordcanbe set

SetSupervisorPassword:* Enablesyoutosetthesupervisor passwordtocontrolaccesstotheSystemSetuputility.See"Creatinga Password"onpage59forinstructionsonsettingapassword.

Passwordonboot: Determineswhetherthecomputerpromptsfora passwordwhenstartingup.Theoptionsare *Enabled* and *Disabled*.A supervisorpasswordmustbesetbeforeyoucanenablethisoption.

Fixeddiskbootsector:* Enablesyoutowrite-protecttheharddrive bootsectortoprotectagainstvirusesandalterations.Onlyauserwith thesupervisorpasswordcanaccessthisfield.Theoptionsforthisfield are *Normal*(default)and *WriteProtect*.

Disketteaccess: .* Enablesyoutorestrict the use offlop pydrives. When set to *Supervisor* (default), the use offlop pydrives is restricted to a user with the supervisor pass word. A supervisor pass word must be enabled before the *Supervisor* option can take effect. When set to *User*, users with either type of pass word have access to flop pydrives. If the field is set to *Supervisor* and a user pass word is enabled, the user must enter the supervisor pass word in order to boot from the flop pydrive.

Viruscheckreminder:*Enablesthecomputertopromptyoutoscanthecomputerforviruses.ThepromptappearseachtimeyoustartyourcomputerorrebootuntilyourespondwithY (yes).Theoptionsforthisfieldare:

- *Daily*:Everydaywhenyoustartyourcomputerforthefirst time,thepromptappears.
- *Weekly*: Whenyoustartyourcomputerforthefirsttimeeach week(afterSunday),thepromptappears.
- *Monthly*:Whenyoustartyourcomputerforthefirsttimeeach month,thepromptappears.
- *Disabled*:Thepromptneverappears.Thisisthedefault setting.

Fora *Daily,Weekly*, or *Monthly*prompttobeaccurate, *SystemDate* in theMainmenumustbesettothecurrentdate.

Systembackupreminder:*EnablesEnablesEnablesbackupyourfilesTheThePromptappearsecomputerorFormationbackupyourfilesY(yes)TheThefieldareFormation

- *Daily*:Everydaywhenyoustartyourcomputerforthefirst time,thepromptappears.
- *Weekly*: Whenyoustartyourcomputerforthefirsttimeeach week(afterSunday),thepromptappears.
- *Monthly*:Whenyoustartyourcomputerforthefirsttimeeach month,thesystembackuppromptappears.
- *Disabled*:Thepromptneverappears.Thisisthedefault setting.

PowerMenu

ThePowermenuofSystemSetupallowsyoutoenableandadjustyour computer'ssophisticatedpower-savingfeatures.Enablingthese featuresextendsthelifeofthebattery.

If your computers hipped with Windows 98 installed, Windows 98 Power Management works with these things in the Power Management option on the Control Panel.

If the AC adapter is plugged in all power management is disabled.

PowerSavingMode: Setsthepowermanagementmode.Choosing modeschangesthesystempowermanagementsettings.Theoptions are *MaximumPowerSavings* (default)and *MaximumPerformance*. *MaximumPowerSavings* conservespowerbyslowingdownthe microprocessorwhile *MaximumPerformance* doesnotslowthe microprocessor.

StandbyTimeout: Setstheperiodofcomputerinactivity(nouser inputordeviceactivity)thatmustpassbeforeyourcomputer

isinthismode. This rest mode is also known assuspend to RAM.

When the computer enters save to disk mode, it will not resume normal operation at a specified time no matter how the *Resume On Time* field is set.

RestTimeout: Setstheamountoftimethatthecomputerneedstobe inStandbybeforeenteringRestMode.Youcandisablethisoptionby selecting *Off*.Thedefaultsettingis10 *min*.

ResumeOnTime: Enablesthecomputertoresumeoperationfrom restmodeatascheduledtime.Thecomputerwillresumeonlyifthe *Rest Mode*fieldissetto *PowerOnSuspend*, not *SaveToDisk*. Ifyou setthisfieldto *On*,youmustsetthe *ResumeTime* fieldaswell.The defaultsettingis *Off*.

 $\label{eq:resumeTime: Specifies the time for your computer to automatically resume from restmode. Entertwo-digit numbers to indicate the hour, minutes, and seconds in the format $hh:mm:ss.Usea24-hourclock$. Use the tabkey to move between the hour, minute, and second cells. Use the hyphenkey <-> or <Space> bartode crease or increase the numbers. You must set this option if you enable $ResumeOnTime$. $$$

BootMenu

The Bootmenu enable syou to select aboot device and set boot options.

Floppycheck :Enablesacheckofthefloppydriveduringthetests performedbythecomputeratstartup.Whenthisfieldisenabled,a completePOSTisperformedatstartup.Theoptionsare *Enabled* and *Disabled* (default).

Summaryscreen :Displaysthesystemconfigurationwhenthe computerstarts.Theoptionsare *Enabled* and *Disabled*(default).

BootDevicePriority: Enablesyoutoselecttheorderinwhichthe computerattemptstobootfromdifferentdevices. Thefieldhasthree options: *ATAPI CD-ROMDrive, DisketteDrive* and *HardDrive*.

Tochooseadeviceasthefirst, second, orthirdbootdevice:

1. Press<Enter>atthe BootDevicePriority field

UsingSystemSetup56

- 2. Highlighttheoptionwiththe<UpArrow>or<DownArrow> key.
- **3.** Pressthe<Space>baror<->(hyphenkey)untiltheoption movesupordowninthelistofoptionsandthenumber *1,2*, or *3*appearsbesidetheoption.
- 4. Press<Esc>toreturntotheBootmenu.

Thedefaultsettingis1 *.DisketteDrive,2.HardDriveand3.ATAPI CD-ROMDrive*. Withthesedefaultsettings,yourcomputerfirst attemptstobootthefloppydrive.Ifthereisnofloppydiskinthefloppy drive,thecomputerwillattempttobootfromtheharddriveandthena bootableCD-ROMintheCD-ROMdrive.

ExitMenu

Select ExitfromthemenubartodisplaytheExitmenu.



Pressing<Esc>doesnotexitthismenu.You mustselectoneoftheoptionsfromthismenu oramenubaritemtoexitthismenu.

ExitDiscardingChanges: EnablesyoutoexitSystemSetupwithout savingyourchanges.Whenyouselectthisitemandpress<Enter>a messageappearsaskingyouifyouwanttosavechangesbeforeexiting. Choose *No*andpress<Enter>toexitwithoutsavingchanges.Choose *Yes*andpress<Enter>tosavechangesandexit.

ExitSavingChanges: Enablesyouto exitSystemSetupandsaves yourchanges.Whenyouselectthisitemandpress<Enter>,amessage appearsaskingyouifyouwanttosaveyourchangesandexitSystem Setup.Choose *Yes*andpress<Enter>tosaveyourchangesandexit. Choose *No*andpress<Enter>toremaininSystemSetup.

LoadSetupDefaults: LoadsthedefaultvaluesforallSystemSetup parameters.Whenyouselectthisoptionandpress<Enter>,amessage appearsaskingifyouwanttoloadthedefaultconfiguration.Choose *Yes*andpress<Enter>toloaddefaultsettingsandremaininSystem Setup.Choose *No*andpress<Enter>toretainyourchangesandremain inSystemSetup.

UsingSystemSetup57

DiscardChanges: Enablesyoutodiscardtheselectionsyouhave madeandrestorethevaluesyoupreviouslysaved.Whenyouselectthis optionandpress<Enter>,amessageappearsaskingifyouwanttoload thepreviousconfiguration.Choose *Yes*andpress<Enter>toloadthe previoussettingsandremaininSystemSetup.Choose *No*andpress <Enter>toretainyourchangesandremaininSystemSetup.

SaveChanges:SavesyourselectionswithoutexitingSystemSetup.Whenyouselectthisoptionandpress<Enter>, amessageappearsaskingifyouwanttosaveconfigurationchanges.ChooseYesandpress<Enter>tosavechangesandremaininSystemSetup.ChooseNoandpress<Enter>todiscardchangesandremaininSystemSetup.

BatteryCalibration: Enablesyoutodischargethesystembattery completelyforamoreaccuratebatteryleveldetection. Thisoptiononly workswith the smartbattery if the ACA dapter is not plugged in.

Thissectiondescribesthesecurityoptionsprovided with your computer.

SystemPasswords

The computer provides two levels of passwords ecurity: administrative-level (supervisor) and user-level (user). Either password prevents unauthorized access to the computer. The supervisor password enables full access to all System Set up fields. The user password enables full access to all System Set User Password and Password on boot security fields and read access to all other System Set up fields. (See "Security Menu" on page 53 for a complete list of System Set up security fields.)

If multipleusers have access to the computer (such as in an etwork environment), as upervisor password can prevent unauthorized access to certain security options.

Choosethetypeofpasswordsecuritythatisappropriateforyourwork. Ifyouwanttosetauserpassword,youmustsetasupervisorpassword first.

CreatingaPassword

Tocreateapassword:

- 1. Atstartup,press<F2>toopenSystemSetup.
- 2. Usethe<RightArrow>keytoselecttheSecuritymenu.
- **3.** Usethe<DownArrow>keytoselect Set SupervisorPassword orSetUserPassword.
- 4. Press<Enter>.TheSetPassworddialogboxappears.
- 5. Typeapasswordofuptosevencharacters.Youcanenterletters ornumbers,butyoucannotusethefunctionkeys,suchas

<Shift>.Yourcomputerdoesnotdistinguishbetween capitalizedandlowercaselettersinyourpassword.Asyoutype thepassword,thecursormovesbutyourpassworddoesnot appearonthescreen.

- **6.** Press<Enter>afteryouhavetypedyourpassword.The computerpromptsyoutoreenteryourpasswordfor verification.
- 7. Typeyourpasswordagainandpress<Enter>.Amessage appearstellingyouthatthechangeshavebeensaved.Press <Enter>againtoreturntotheSecuritymenu.
- 8. Press<Esc>togototheExitmenu.
- **9.** Select *ExitSavingChanges* ,press<Enter>,andpress<Enter> againtorestartthecomputer.

DeletingaPassword

Todeletethepassword:

- 1. Atstartup,press<F2>toopenSystemSetup.
- 2. Typeyourpasswordwhenpromptedandpress<Enter>.
- 3. Usethe<RightArrow>keytoselecttheSecuritymenu.
- **4.** Usethe<DownArrow>keytoselect *SetSupervisorPassword* or*SetUserPassword*.
- **5.** Press<Enter>.Thecomputerpromptsyoutoenterthecurrent password.
- **6.** Press<Enter>.Thecomputerpromptsyoutoenterapassword. Donottypeanything.
- 7. Press<Enter>.Thecomputerpromptsyoutore-enterthe password.Donottypeanything.
- 8. Press<Enter>.Amessageappearstellingyouthatthechanges havebeensaved.Press<Enter>againtoreturntotheSecurity menu.
- 9. Press<Esc>togototheExitmenu.

10. Select *ExitSavingChanges* ,press<Enter>,andpress<Enter> againtorestartthecomputer.

RequiringaBootPassword

Afteryoucreateasupervisororuserpassword, youcan enable the computer to prompt for a password each time it starts.

Toenabletheprompt, select the option *Enabled* in the *Passwordon boot* field in System Setup. For more information about the *Password onboot* field, see "Security Menu" on page 53.

LockingtheHardDriveBootSector

If you have an supervisor password, you can lock the hard drive boot sector to protect against virus esoral terations.

Tolocktheharddrivebootsector, selecttheoption *Writeprotect* in the *Fixeddiskbootsector* fieldinSystemSetup.Formoreinformation about the *Fixeddiskboot sector* field, see "SecurityMenu" on page 53.

LockingtheFloppyDrive

If you have an supervisor password, you can lock the flop py drives o that a user with only a user password cannot load person alsoftware, which may introduce a virus into the computer.

Toenablethefloppylock,selecttheoption *Supervisor*inthe *Lock Floppy*fieldinSystemSetup.Formoreinformationaboutthe *Lock Floppy*field,see"SecurityMenu"onpage53.

LockingtheKeyboard

Thekeyboardlockenablesyoutoprotectyoursystemwhenyouwalk awayfromitforatime.Tousethekeyboardlock,youmustfirstenable

SamsungSN6000SeriesUser'sManual

UsingSystemSecurity61
apasswordthroughSystemSetup.(See"CreatingaPassword"onpage 59forinstructions.Tolockyourkeyboard,press<Fn+F7>.Tounlock yourkeyboard,typeyourpasswordandpress<Enter>

SamsungSN6000SeriesUser'sManual

UsingSystemSecurity62

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UsingPowerManagementOptions

Yourcomputerincludespower-managementoptionsthatcanhelpthe batterychargelastlongerandextendthelifeofthebattery,LCDpanel, andothercomponents.Power-managementoptionsslowdownorshut offsystemcomponentswhenthecomponentsarenotbeingused.

Powermanagementslowsdownsystemperformance. Yourcomputer runsfastestwiththeACadapterattached, whennopowermanagement isineffect. If you disconnect the ACadapter the LCD brightness is reduced to save power. See page 18 for information on increasing the LCD brightness.

If your computershipped with Windows 98 installed, Windows 98 Power Management works with these trings in the Power Management option on the Control Panel. If your computer uses DOS or Windows 95, Power Management works with these trings in System Setup

If your computers hipped from the factory with Windows NT installed, Power Profiler power managements of tware was included.

MaximumPowerSavingMode

Inmaximumpowersavingmode, themicroprocessorrunsatslow speedtoconservepower. To enable this mode, set the *PowerSaving Mode* field in System Set up to *maximumpowersavingmode*.

StandbyMode

The *StandbyTimeout* fieldinSystemSetupenablesyoutospecifythe timeperiodthatthecomputercanremainidle(nouserinputordisk activity)beforethecomputerentersstandbymode.Youcandisable thisoptionbyselecting *Off*,oryoucanspecifya *StandbyTimeout* delay timeoffrom1to16minutes.

In stand by mode, the system and video memory and the video controllers low down. The LCD backlight, hard drive, flop py drive, PC

SamsungSN6000SeriesUser'sManual

UsingPowerManagementOptions63

Cardcontroller, and some other devices turn offtos aveenergy. DPMS (a form of monitor power management) to an external monitor is invoked.

Toresume from standby, touch the touch pad. Donot pressany keys on your keyboard.



Ifyoupressakeytoresumefromstandby,your computerwillrecognizethefunctionofthekey youpressedandperformthatfunction.For example,ifyoupress<N>andadocumentis open,an "n" istypedintoyourdocument.

If you enable both stand by and restmodes, your computerenters stand by when the delay time you chose for stand by has elapsed, and then enters restmode when the delay time you chose for restmode has elapsed since the computerent red stand by.

RestMode

The *RestTimeout* fieldinSystemSetupenablesyoutospecifythetime periodaftertheenteringstandbybeforethecomputerentersrestmode. Youcandisablethisoptionbyselecting *Off*,oryoucanspecifya *Rest Timeout* delaytimeof5to60minutes.

The *RestMode* fieldinSystemSetupdefineswhattypeofrestmode yourcomputerenters,see"RestMode"onpage55formore information.

 $You can press <\!\!Fn +\!F11\!>\! to manually place your computer into rest mode.$

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Whenyouusethe<Fn+F11>keycombination, yourcomputermaypostponeenteringrest modeduringacriticaloperation,suchas readingfromorwritingtotheharddrive.

Toresumetofull-powermode, pressthe powerbutton.

Oncealldevicesreturntofull-powermode, all actives of tware applications and system states are restored to exactly how they were before your computer entered rest mode.

Whenyourcomputerentersorresumesfromsavetodiskmode, screensappearindicatingsystemstatus.Thesestatusscreensdonot appearwhenthecomputerentersorresumesfrompoweronsuspend.

RestModePrecautions

Observethefollowingprecautionswhenusingrestmode:

- Saveallopenfilesbeforeyoupress<Fn+F11>tomanually placeyourcomputerintorestmode.
- Donottrytoresumetofull-powermodeusingbatterypowerif thebatterychargeislow.Ifthebatterychargeistoolow,the systemmaynotbeabletoresumefully.PlugintheACadapter ifyourcomputercannotresumenormaloperationbecauseofa lowbatterycharge.

Whenyourcomputerisinpoweronsuspendor savetodiskmode,donotconnectorremove anydevices(includingPCCardsorexternal modules)becauseyoumaydamagethe computerorresumetofullpowermayfail.lfa floppydiskisinthefloppydrive,donotremove itorswitchitwithanotherdisk.

However, you can plug in the AC adapter if the resumet of ull powerfails because of alow battery charge.

Whenthecomputerisinsavetodiskmode, you canremove and replace the battery.

UsingPowerProfiler

PowerProfilerenablesyoutosetpower-managementoptionsfor computersshippedwithWindowsNTinstalled.Toopenthe PowerProfilerwindow,double-clickthebatteryiconontheright corneroftheWindowstaskbar.Ifyouclicktheiconwiththeright mousebutton,amenuappearswithanoptiontoputthecomputerin rest(restmode).

SamsungSN6000SeriesUser'sManual

UsingPowerManagementOptions65

ClicktheStandardtabinPowerProfilertosettimeoutsfortheLCDand theharddrive.Youcanalsosetpowermanagementtobeenabled *Always,BatteryOnly*, or *Never*.TheAdvancedscreeninPowerProfiler enablesresumefromrestoptions,andtheBatteryscreenenables optionstoconservebatterylife.

KeepthefollowinginmindwhenusingPowerProfiler:

- IfyoudisablepowermanagementinPowerProfiler,thesetting overridesanypower-managementsettingsinSystemSetup.
- If you enable LCD and hard drive time outs in Power Profiler and the stand by time out in System Setup, the LCD and hard drive turn off when the short est time outperiod in either program passes.
- Ifyoudisablethe *ResumeonTime* fieldinSystemSetup,the samefieldinPowerProfilerisalsoautomaticallydisabled.An easywaytoworkwiththesetwofieldsistosettheresumetime toOinSystemSetupandsettheactualresumetimethatyou desireinPowerProfiler.

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PowerProfilermaintainstheaccuracyofthe systemclockwhenthecomputerresumesfrom restmode.IfPowerProfilerisclosedor removedfromyourharddrive,yoursystem clockmaynotbeaccuratewhenyourcomputer resumesfromrestmode.

Formoreinformation on Power Profiler, see the Helpoption in the Power Profiler software.

CreatingaSavetoDiskPartition

Theharddriveshippedinyourcomputerhasasavetodiskpartitionin whichdatafromsystemandvideomemoryisstoredduringsavetodisk mode. Thepartitionis themaximum size needed for your computer and supports systemmemory of 160 MB.

If you need to repartition your hard disk, you can create as a veto disk partition using the Phoenix PHDISK utility, provided with your computer.

| 1 | |
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Ifyoudonotintendtousesavetodiskmode, youdonotneedtocreateasavetodisk partition.

Tocreatethesavetodiskpartition:

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| II. | |
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Tocreateasavetodiskpartition, youneeda DOSbootablediskthatcontainsPHDISK, FDISKandtheFormatcommand.

- 1. CreateaPhoenixPHDISKutilitydiskfromtheSamsung RestoreCD-ROM.See"UsingtheSamsungRestoreCD-ROM"onpage88formoreinformation
- 2. Shutdownyourcomputer
- 3. Connectthefloppydrivetothecomputer.(See"Connecting ExternalModules"onpage29andsee"UsingtheFloppy Drive"onpage32forinstructions.).Switchonyourcomputer.
- **4.** EnterSystemSetupandundertheBootmenu , set *Diskette Drive*asthefirstbootdevice.(see"UsingSystemSetup"for informationonsettingoptions.)
- 5. Insertthebootablediskintothefloppydriveandstartyour computer.
- **6.** Afteryoursystemboots,removethestartupdiskfromthe floppydriveandinsertthePHDISKdisk.
- 7. AttheA:prompt,type:

phdisk /c 167936 /p

SamsungSN6000SeriesUser'sManual

andthenpress<Enter>.

PHDISK automatically creates as a veto disk partition of the maximum size for your computer.

When the save to disk partition has been created, the following message appears:

```
Save to disk partition created successfully
```



Ifyoudonotintendtousethesavetodisk mode,youcandeletethesavetodiskpartition onanSamsungharddriveusingPHDISK/ delete.Thenyoucanrepartitionandreformat thesavetodiskpartitionforsomeother application.Backupyourharddrivebefore deletingthepartitionifyoufeelunsureofhow todothis.

ChangingtheVideoConfiguration

YourcomputerincludesanTFTLCDoractive-matrixdisplay. The capabilities of the screen plus the video drivers installed on the computer determine the quality of the image your LCD can display.

The following sections describe the display capabilities of your computer.

ResolutionandColorDepth

Theresolution of the LCD is the sharpness of the image it can display. Resolution is measured by the number of pixels (individual dots) displayed on the entires creen. In general, the more pixels the LCD can display, the better the image.

YourLCDscreeniseitherSVGAorXGA:

- ThemaximumdisplayfortheSVGALCDscreenis800x600, about480,000pixels.
- ThemaximumdisplayfortheXGALCDscreenis1024x768, about800,000pixels.

ThenumberofcolorstheLCDcandisplayismeasured by how many bits the LCD uses to represent each pixel:

- 8-bitcolorcansupport256differentcolors.
- 16-bitcolorcansupport64K(65,536)colors.
- 24-bitcolorcansupport16M(16.8million)colors.
- 32-bitcolorcansupport16M(16.8million)colors.

24-bitcolorusestheRGBcolormodel.

32-bitcolorusestheCMYKcolormodelwhichgivesbetterprinted colormatching.

Table7liststhebasicvideomodecapabilitiesandmaximumcolors supportedbyyourcomputer.

| Software Drivers | ResolutionSupported | Numberof Colors |
|---------------------|--|--------------------|
| Windows98 | 320x200,320x240,512x384,640x350,640x400, 640x480,720x480,720x576,800x600,864x480, 1024x600,1024x768,1152x864,1280x1024, 1600x1200 | 256 |
| | 320x200,320x240,512x384,640x350,640x400, 640x480,720x480,720x576,800x600,864x480, 1024x600,1024x768,1152x864,1280x1024, 1600x1200 | 65,536 |
| | 320x200,320x240,512x384,640x350,640x400, 640x480,720x480,720x576,800x600,864x480, 1024x600,1024x768,1152x864,1280x1024 | 16.8million |
| | 320x200,320x240,512x384,640x350,640x400, 640x480,720x480,720x576,800x600,864x480, 1024x600,1024x768,1152x864 | 16.8million |
| Windows NT®4.0 | 640x480,800x600,1024x768,1152x864, 1280x1024,1600x1200 | 256 |
| | 640x480,800x600,1024x768,1152x864, 1280x1024,1600x1200 | 65,536 |
| | 640x480,800x600,1024x768,1152x864, 1280x1024 | 16.8million |
| | 640x480,800x600,1024x768,1152x864 | 16.8million |

Allthesevideomodescanbedisplayedonanexternalmonitor. However,ifyoudisconnectanexternalmonitorthatwasattachedto yourcomputerandthenstartthecomputer,theLCDmayreverttoa differentresolutionthantheoneyouchosefortheexternalmonitor.

ConfiguringDisplayFeatures

The following sections describe how to configure the display settings on your computer.

SamsungSN6000SeriesUser'sManual

ChangingtheVideoConfiguration70

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SelectingaMonitorType

Whenyouattachanexternalmonitortoyourcomputer,Windows98 automaticallyselectsdisplaysettingsforit(thisfeatureisnotavailable inWindowsNT).Ifyouwish,youcanadjustthedisplaysettingsby selectingamonitortype:

- 1. Clickthe StartbuttonontheWindows98taskbar.
- 2. Select Settings.
- 3. Click ControlPanel .TheControlPanelwindowappears.
- 4. Double-clickthe *Display*icon.TheDisplayPropertieswindow appears.
- 5. Clickthe Settingstab. The Settingsscreen appears.
- 6. Clickthe *AdvancedProperties* button. TheAdvanced Propertiesscreenappears.
- 7. Clickthe Monitortab.
- **8.** Clickthe *Change*button. The *UpdateDeviceDriverWizard* screenappears.
- 9. Clickthe *Next*button.
- **10.** Select the *Displayalistofallthedriversinaspecificlocation* radiobuttonandclick the Next button.
- 11. Selectthe Showallhardware radiobutton.
- 12. Selectamanufacturerandmodelsettingthatmatchesyour externalmonitor. Yourcomputerhasanintelligentvideochip setthatautomaticallymatchesyourLCDpanelresolutionand frequencywhenanexternalmonitorisnotpresent.
- 13. Clickthe *Next*button.
- **14.** The *UpdateDeviceDriverWizard* screenappearsshowing the driverlocation of the device you have selected. Click the Next button.
- 15. Followanypromptsthatappearonthescreen.

ChangingColorDepthandResolution

TochangethecolordepthandresolutionofyourLCDorexternal monitor:

- 1. Clickthe StartbuttonontheWindowstaskbar.
- 2. Select Settings.
- 3. Click ControlPanel .TheControlPanelwindowappears.
- 4. Double-clickthe *Display*icon.TheDisplayPropertieswindow appears.
- 5. Clickthe Settingstab. The Settingsscreen appears.
- **6.** Tochangethecolordepth,clickthearrownextto *Colorpalette* andselectthecolordepthyouwant.
- 7. Tochangetheresolution, clickanddragtheknobunderthe *Screenarea* untilyouselecttheresolutionyouwant.
- 8. ClicktheOKbutton.
- 9. Followthepromptsthatappearonthescreen.

ChangingtheVideoDriver

Itispossiblethatyoumaywanttoupdateyourvideodriverorthatyour installedvideodriverhasbecomecorruptsothatthedisplayis unusable.

InWindows98:

- 1. Clickonthe *StartButton* .TheStartMenuappears.
- 2. Select *Settings* and clickon *ControlPanel*, double clickon *Display*. The Display Properties window appears.
- 3. Clickthe *Advanced* button. The properties screen for your currently installed video driver appears
- 4. Selectthe Adaptermenu.
- **5.** Clickthe *Change*button.TheUpdateDeviceDriverWizard windowappears.

- 6. Clickthe *Next*button.
- 7. Select *Displayalistofallthedriversinaspecificlocation,so youcanselectthedriveryouwant* .Clickthe *Next*button.
- 8. Clickthe *Havedisk* button.Ifthedriverisonafloppydisk insertitintothefloppydriveorifyouwanttousetheorigianl factorydriverinserttheSamsungRestoreCD-ROMintothe CD-ROMdrive.Clickthe *Browse*buttonandlocatedriveryou wanttoinstall.ClicktheOKbutton.
- **9.** Selectthenewdriverinthe *SelectDevice* screenandclickthe *Ok*button.
- **10.** Clickthe *Next* buttonto install the new driver and follow any directions on the screent of inish setting the display properties.

InWindowsNT4.0:

- 1. Asthecomputerstarts, select *WindowsNTWorkstationVersion* 4.00[VGAmode] astheoperatingsystem and press<Enter>.
- **2.** Logontothecomputerassupervisor.TheInvalidDisplay Settingswindowappears.
- 3. Clickthe OKbutton. The Display Properties window appears.

IftheChangeDisplaywindowappears,gotostep 6.

- 4. Selectthe *Settings*menu.
- **5.** Clickthe *DisplayType* button.TheDisplayTypewindow appears.
- 6. Clickthe Changebutton. The Change Displaywindow appears.
- 7. Clickthe *Havedisk* button.Ifthedriverisonafloppydisk insertitintothefloppydriveorifyouwanttousetheorigianl factorydriverinserttheSamsungRestoreCD-ROMintothe CD-ROMdrive.Clickthe *Browse*buttonandlocatedriveryou wanttoinstall.ClicktheOKbutton.

Alinesimilartothefollowinglineappearsunder the Display option: ATITechnologiesInc.3DRageLTPro.

8. ClickOK.TheThird-PartyDriverwindowappears.

- **9.** ClickYes.Thedriveriscopied.Awindowappearstellingyou thedriverhasbeensuccessfullycopied.
- **10.** ClickOK.Removethediskfromthefloppydrive.Closethe openwindowsonthescreen.
- **11.** ClickYeswhenpromptedtorestartthecomputer.Asthe computerrestarts,select *WindowsNTWorkstationVersion4.00* astheoperatingsystemand press<Enter>.
- **12.** Logonassupervisor. The Invalid Display Settings window appears.
- **13.** ClicktheOKbutton.ClicktheTestbuttonattheDisplay Propertieswindowandfollowanydirectionsonthescreento finishsettingthedisplayproperties.

ByinstallingPCCards, you can add functions to your portable computers imilar to those found on add-inboards for desk top computers. Available PCC ards include:

- Input/output, such as modem, network, pager, video capture, and SCSI cards.
- Storage, such a shard drive cards.
- Combocards, such as a combination mode mand network card.

YourcomputerincludesthefollowingPCCardsupport:

- TwoPC-Cardslots:YoucaninstallTypeI,II,orIIIcardsin theslots.TypeIIIcardsarethickerthanTypesIandII.Ifyou installaTypeIIIcardinthebottomslot,youcannotinstalla cardinthetopslot.
- CardBushardwareandsoftware:CardBusenablesthe computertouse32-bitPCCards.Windows98supports32-bit and16-bitPCCards.TheSystemSoft
 [®]CardWizardTMfor WindowsNTprogram,providedwithsystemsthatshipfrom thefactorywithWindowsNTinstalled,alsosupportsboth32bitand16-bitcards.
- Zoomedvideo:BothPCCardslotsandthevideochiponyour computersupportzoomedvideo.Whenyouinstallazoom videoPCCardineitherslot,datacanbetransferreddirectly fromthePCCardtovideoandaudiosystemswithoutgoing throughthemicroprocessor.Videoconferencingandreal-time multimediadevices,suchasvideocameras,aresupportedby zoomvideo.

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TousetheCardBusandzoomedvideo technology,installtheCardBusandZoomed VideodriversprovidedwithyourPCCard.lfno driversweresuppliedwithyourcard,contact thePCCardmanufacturer.ATAandmodemPC Cardsdonotrequireextradrivers.

ThefollowingsectionstellyouhowtoworkwithPCCards.

TomaintainyourPCCards, follow these guidelines:

- Keepcardsawayfromexcessiveheat,directsunlight,and liquids.
- Donotdrop, bend, flex, or crush cards when handling.
- Keepdust, magnets, and staticelectricity away from PCC ards.
- Whenacardisnotinuse, carryitinits protective carrying case.
- SomePCCardsincludecablesthatextendfromthebackofthe cards.Becarefulnottobendorputexcessivestrainonthese cables.

UsingPCCards

YoucaninstallPCCardswhilethecomputerison.

ToinsertaPCCardintoaslot:

- 1. Opentheslotdoor.
- **2.** Alignthecardwithaslotandinsertthecardintotheslotuntilit locksinplace(Figure21).



Figure21.InsertingaPCCard

ToremoveaPCCardfromaslot:

- 1. Opentheslotdoor.
- 2. Presstheejectbuttononceanditspringsout.

WorkingwithPCCards76

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3. Presstheejectbuttonagaintoejectthecard,seeFigure22on page77



Figure22.RemovingaPCCard

Windows98

Windows98automaticallyassignscomputerresources(suchas communicationportsandmemoryaddresses)toaPCCardinstalledin yourcomputer.ForfurtherinformationonconfiguringaPCCardin Windows98,seetheindexentry *PCcards* intheWindowsHelp. Windows98alsohandlespowermanagementforPCCards.

ToremoveaPCCardfromyourcomputer:



UsethefollowingprocedurestoremovePCCards, oryoumaylosedatathatisbeingstoredtoacard.

- 1. ClickthePCCardicononthetaskbar.
- 2. Click *Stop*forthecardyouwanttoremove.Amessageappears tellingyouitisOKtoremovethecard.
- 3. PushthecardejectbuttononthesideofthePCCardslot.
- 4. PullthecardoutofthePCCardslot.

WindowsNT4.0

SystemsoftCardWizardisshippedwithnotebookcomputersthatuse WindowsNTastheoperatingsystem.WhenyouinstallaPCCard, CardWizardattemptstoconfigureitautomatically.IfCardWizard successfullyassignssystemresourcestoyourcard,thecomputerbeeps twice.

If CardWizardcannotautomaticallyconfigureyourPCCard, the computerbeepsonceandamessageappearstellingyouthatthecard hasnotbeenconfigured. ClicktheWizardbuttonontheCardWizard window. CardWizardthenanalyzeswhythecardwasnotconfigured and fixes the problem or give syou information to help fix the problem.

CardWizardworkswiththePowerProfilerprogramtomanagePC Cardswhenthecomputerentersorresumesfromrestmode. CardWizardgivesyouinstructionstopreventlossofdatabeforethe computerentersrestmodeormaystopthecomputerfromenteringrest mode.ATAandmodemcardscanenterrestmode.

FollowtheseguidelineswhenusingPCCardswithCardWizard:

- LAN(local-areanetwork)cardscanbeinsertedwhilethe computerisonbutshouldberemovedonlywhenthesystemis turnedoff.
- SCSIcardsshouldbeinsertedatstartuptoenableWindows NTtofindthedeviceattachedtotheSCSIcard.SCSIcards canberemovedwhenthecomputeristurnedoff.Ifyourestart yourcomputerwithouttheSCSIcardinstalled,amessagemay appeartellingyouthataservicedidnotstart.Youcanignore thismessage.
- ModemandATAcardscanbeinsertedandremovedwhilethe computerison.

BeforeyouremoveamodemorATAcardfrom yourcomputer,stopthecardthroughthe CardWizardprogramoryoumaylosedata.

TostopandremoveaPCCardfromyourcomputer:

- 1. IntheSystemSoftCardWizardscreen,clickwiththeright mousebuttononthenameofthecardyouwanttoremove.
- 2. ClickStopintheActionsmenu.Aredstopsignappearsonthe mainscreenwhenthecardisstopped.

- 3. ClickOK.
- 4. PushthecardejectbuttononthesideofthePCCardslot.
- 5. Pullthecardoutoftheslotcompartment.

FormoreinformationonusingtheCardWizardprogram, see the CardWizardHelp.

SamsungSN6000SeriesUser'sManual

WorkingwithPCCards79

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UpdatingtheSystemBIOS

YourcomputerusesflashBIOS, which enables you to update the BIOS easily from a flop py disk. If Samsung releases a BIOS update for your computer, copy the disk image to your hard drive from

• TheSamsungWebsite: http://www.samsungpc.com/

PerformingtheBIOSUpdate

BeforeperformingtheBIOSupdate, please note the following rules:

- DonotinterruptthepowerwhileupdatingtheBIOS. Interruptingthepowermaycreateafatalerror,causingyour computertobecomeinoperableonceithasbeenturnedoff.If thepowerisinterrupted,turnoffyourcomputerandcallyour authorizedSamsungServiceCenter.
- If your computer is connected to a docking device, disconnect it.
- DonotattemptaBIOSupdateunlesstheACadapteris connected.
- UndertheBootmenuinSystemSetup , set *DisketteDrive* as thefirstbootdevice.(See"BootMenu"onpage56for informationonsettingtheoption.)
- WritedownyourSystemSetupsettingsbeforeyouperforma BIOSupdate.(See"RecordingtheComputerHardware Configuration"onpage108.)

ToperformtheBIOSupdate:

- 1. AttachtheACadaptertoyourcomputer, plugtheadapterinto an electrical outlet, and turn on the computer.
- **2.** CopytheBIOSdiskimagefromtheBBSortheSamsungWeb siteontoyourcomputer'sharddrive.
- 3. Insertaformattedfloppydiskinthefloppydrive.
- **4.** ClicktheStartbuttonontheWindowstaskbarandclick *Run.*

- **5.** Typethepathtotheextractutility.TheutilityisintheBIOS updatefilesyoucopiedtotheharddrive.
- 6. ClicktheOKbutton.
- 7. FollowtheinstructionsonthescreentomakeyourBIOSupdate disk.
- 8. Leavethediskinthecomputerandrestartthecomputer.
- **9.** FollowtheinstructionsonthescreentocompletetheBIOS update.
- **10.** AftertheBIOSupdateiscompleted,enterSystemSetupandset thefollowingfields:
 - Checkthe *SystemTime* and *SystemDate* fieldstomake suretheydisplaythecurrenttimeanddate.
 - Setthe *InstalledO/S* .Choosethecorrectsettingfor youroperatingsystem.IfyouuseWindowsNT4.0 select *Other*asitdoesnotsupportplugandplay technology.
 - Set *Infraredport* (inthe *I/ODeviceConfiguration* submenu).Settingtheportto *Disabled*disablesthe infraredlinkandfreesanIRQforanotherdevice.If youpurchaseinfraredsoftware,youcanusethe infraredlinkwithWindowsNT.
 - Set USBDevice to Disabled.Settingtheportto DisabledfreesanIRQforanotherdevice.USB devicesarenotsupportedbyWindowsNT4.0.

restoreotherfieldstothesettingsnotedonyourconfiguration listingifyouwish.

TroubleshootingtheBIOSUpdate

If the flash BIOS update was not successful, make sure that

- YouhavetherightupdateBIOSforyourmachine.
- Youhavecompletelyinsertedthediskintothefloppydrive.
- TheBIOSupdatediskhasnotbeendamagedorcorrupted.
- TheACadapterisconnected.

ThentrytheBIOSupdateagain.Iftheproblemcontinues,contactyour authorizedSamsungreseller.

AboutDriversandSystem Resources

Thissection gives you basic information about drivers and system IRQs.

Drivers

Adriverisaprogramthatenablestheoperatingsystemtoworkwitha hardwaredevice.Yourcomputerincludesdriversfortheaudio,video, touchpad,keyboard,CD-ROMdrive,harddrive,floppydrive,andPC Cardcontroller.Whenyouaddadevicetoyourcomputer,suchasa printer,youmustinstalladriverforthatdevice.

Differentdriversareusedbydifferentoperatingsystems.Ifyouneed driversforanoperatingsystemotherthanWindows98orWindows NT,checktheDriversdirectoryinyourrestoreCD-ROM,driversfor someotheroperatingsystemsareincludedthere.

IRQs

Mostofthedevicesinyourcomputerorconnected toyourcomputer needtheirownIRQ.TheIRQisahardwarelinethatadevicecanuse tosendsignalstothemicroprocessor.Whenthedeviceneedsthe microprocessor'sservice,thedevicesendsaninterruptrequestsignal tothemicroprocessor.

ThenumberofIRQsavailableforanycomputerislimitedbyindustry standards.Becauseitshipswithnumerousfeatures,theSN6000Series computerusesmostoftheavailableIRQs.Ifyouaddanotherdeviceto yourcomputer,youmayneedtodisableanexistingdevicetofreeup anIRQforthenewdevice.IRQresourcesareofparticularconcern whenthecomputerisattachedtoadockingdevice.

TheIRQsthatareusedbydefaultonyourcomputerarelistedinTable 8.

SamsungSN6000SeriesUser'sManual AboutDriversandSystemResources83

Table8.AscentiaSNSeriesIRQs

| IRQ | Component(Windows98) | Component(WindowsNT |
|-----|--------------------------|--------------------------|
| 0 | Systemtimer | Systemtimer |
| 1 | Keyboard | Keyboard |
| 2 | InternalController | InternalController |
| 3 | InfraredPort(COM2) | (available) |
| 4 | SerialPort(COM1) | SerialPort(COM1) |
| 5 | Sound,USB | Sound,USB |
| 6 | Floppycontroller | Floppycontroller |
| 7 | ECPPrinterPort(LPT1) | ECPPrinterPort(LPT1) |
| 8 | SystemCMOS/RealTimeClock | SystemCMOS/RealTimeClock |
| 0 | | |

InWindows98, you can configure adevices othat the device is disabled when you connect your computer to a docking station but enabled when the computer is not connected to the docking station. With this configuration, an IRQ is available for a peripheral device that you can connect the docking station. See your docking station manual form or einformation.

EnablingtheInfraredPort

If your computer's operating system is Windows 98, you can enable and use the infrared port. If your computer's operating system is Windows NT4.0 you will need to purchase additional software to use the Infrared port. If you are unable to transfer files with the infrared port, check the following:

- Makesurethe *SerialportB* fieldinSystemSetupissetto 2F8, *IRQ3*.Thefieldisinthe *AdvancedMenu* under *I/ODevice Configuration*.
- Thereceivingdevicemustbepositionedproperly. Theremust benomore than three feet (or one meter) of distance between the computer's infrared portand there ceiving infrared device.
- Thesendingandreceivingdevicesneedtobeonthesamelevel vertically.Placethemonthesametableifpossible.
- Makesuretheinfraredportsonthesendingandreceiving devicesfaceeachother, withnomorethana30degreeangle betweenthetwoinfraredports.
- Makesurethatnothingisobstructingthefiletransferpath betweenthecomputer'sinfraredportandthereceivinginfrared device.

 $\label{eq:constraint} If you still cannot transfer a file, see the documentation for the infrared software.$

ServicePack3forWindowsNT4.0

Microsoft[®]ServicePack3(SP3)isincludedwithcomputersshipped fromthefactorywithWindowsNTinstalled.Anytimeyouchangeor addcomponentstoyourWindowsNTsystem,youneedtoreinstall SP3.

The version of SP3 on your computer's hard drive includes the correct videodriver for your system. If possible, always install this version on your computer.

ToinstallSP3:

- 1. Runtheexecutablefile.Onyourcomputer'sharddrivethisfile islocatedatC:\SP3\I386\update.
- 2. Followtheinstructionsonthescreenwiththeseexceptions:
 - **a.** Whenyouarepromptedtooverwritetheuninstall directory,clicktheYesbutton.

b. Whenapromptidentifiesyourpcmcia.sysfileasan OEM-installedfileandasksyoutooverwritethe versionofthefileonyoursystemwiththeservicepack version,clicktheNobutton.

Ifyouinstallanyfutureservicepacksonyour computer,makesurethat,whenyouare prompted,youdonot overwritethepcmcia.sys file,oryoumaybeunabletouseyourcomputer.

If you install SP3 from any source other than your computer's hard drive, the video driver that was installed on your computer at the factory is overwritten. After you install the service pack, you must reinstall the video driver the first time your estart your computer, see "Changing the Video Driver" on page 72 for more infomation.

Ifyoueverhavedifficultyrunningyourcomputer,followthesesteps:

- **1.** Consult the following sections for advice on how to handle system problems.
- 2. If you have an internet connection, visit the Samsung Website:

http://www.samsungpc.com

UpdatesonyoursystemandotherSamsungproductsare periodicallyaddedtotheWebsite.

3. Ifsteps1and2donothelpyoutoresolvetheproblem,contact yourSamsungresellerforassistanceorcalltheSamsung ProductSupportHot-Line,seeyourwarrantycardforcontact details.

UsingtheSamsungRestoreCD-ROM

AllSN6000Seriescomputersthatshipfromthefactoryincludeone MicrosoftWindows98orWindowsNT4.0CD-ROM,onerestoreCD-ROM ROMandoneBootFloppydiskette.TheSamsungRestoreCD-ROM containsacopyoftheapplicationsanddriversneededforcomputer's operatingsystem.

Intheunlikelyeventthatprogramsonthecomputerharddrivebecome corruptedorareerased, youcanuse the Microsoft Operating System CD-ROM and the restore CD-ROM to reinstall them. To restore software, follow the direction sincluded with the restore CD-ROM.

Touse the restore CD-ROM, insert the CD-ROM into the CD-ROM drive while your Microsoft operating system is running, the CD-ROM will start automatically, follow any on-screen prompts.

OperatingProblems

Thissectiontellsyouwhattodoifyouhaveproblemsrunningyour computer. If any problem persists aftery out a kecorrective action, contact your reseller for assistance.

The computer does not hing when you turniton.

Hasthebatteryrundown?ConnecttheACadapterorauto/airline adaptertogetpowerandrechargethebattery.Tryturningonthe computeragain.

The computer is not behaving as expected.

Operatingyourcomputerathighspeedwiththecacheenabled maycausesysteminstabilityandincompatibilitywithsome operatingsystems. If yourcomputerisnot behaving as expected and no error messages appear, disable the *MemoryCache* setting in the *MemoryCache* field of System Setup.

NothingappearsontheLCDpanelwhenyouturnonthe computer.

AdjustthebrightnessontheLCD.Areyouusinganexternal monitor?Ifso,press<Fn+F5>toreturntotheLCDpanel.

Troubleshooting88

Nothingappearsontheexternalmonitorwhenyouswitchthe displaytoit.

Is the monitor properly connected to the computer ? Is the monitor's power cord connected to an AC wallout let ? Check the brightness and contrast controls on the monitor. Does the program appear on the LCD panel instead of the external monitor? If so, press < Fn+F5 > to switch to the monitor. Try turning the monitor of fandon again.

The external monitor displays flashes or waves.

Checkthecablesbetweenthemonitorandthecomputer. Arethey properlyinstalled?

Someoftheletterkeystypenumbersinsteadoftheindicated letters.

IstheNumLocklighton?Ifso,thenumerickeypadonthe keyboardisactive.Toreturnthekeypadkeystotypingletters, press<NumLock>.

Batterypowerseemstorunoutfasterthanexpected.

If youarerunning the computer from the battery rather than the AC adapter, makes ure that you set the *Battery Power Saving Mode* field in System Set up to *Maximum Power Saving Mode*. This set tingenables the microprocessor and the hard drivet os low down when the computer is idle.

Youcanalsoenableotherpower-savingoptionsthroughSystem

the *InstalledO/S* fieldinSystemSetupissetto *other*. Checkto makesurethattheportisenabledinSystemSetup.

APCCarddoesnotworkcorrectly.

MakesurethatthePCCardisinsertedrightsideupinthePCCard slot.Checkthatthecardisinsertedfullyintotheslot.Ifyouare usingaPCCardmodem,checkthemodemcableconnections.If youareusinganoperatingsystemthatisnotplugandplay compliant,makesurethe *InstalledO/S* fieldinSystemSetupisset to *Other*.

TheSystemSetupsettingsarenotretainedwhenyouturnoffthe computer.

TheCMOS battery inside the computer may need to be replaced. The CMOS battery provides power to save the system BIOS information when the computer is turned off. Normally, the CMOS battery lasts for several years. Donot attempt to open the chassis and replace this battery yourselfory our warranty is void. Have an authorized Samsung service center replace the CMOS battery. YoucanorderthefollowingoptionsforyourSN6000Seriescomputer fromyourauthorisedSamsungreseller:

- AnextraACadapter.
- Anauto/airlineadapterthatenablesyoutochargethe computer'sbatteryandoperatethecomputerwhileinan automobileoranairplane.
- Anextrabatterypack.
- 32,64and128MBmemorymodulesthatenableyouto upgradeyourcomputer'smemory.
- Anexternalnumerickeypad.
- AnexternalCD-ROMdrivemodule.
- AnexternalDVD-ROMdrivemodule.
- Dockingoptionsthatenableyoutouseyourcomputerlikea desktopcomputer.

Theoptionsthatareavailablemaychangeperiodically.Contactyour Samsungresellerforupdatedinformationoncurrentandnewoptions.

ACAdapter

TheoptionalACadapteroperates in the same way as the adapter that came with your computer does. See "Attaching the ACAdapter" on page 7 for information about the ACadapter.

Figure23.ACAdapter

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| | _ | - | - | - 1 | |
| | - | - | - | - 1 | |

Contactyourairlineforinformationonusingan airlineadapteronyourflight.

Tousetheadapter:

- 1. PlugtheadaptercableintotheACadapterconnectoronthe computer.
- 2. Connecttheadaptertothecigarettelightersocketorthe portablecomputerconnectorontheairplane.

Thelightontheadapterisgreenwhentheadapterisworkingproperly. Thelightmayberedforafewsecondswhenyoufirstpluginthe adapterorwhileyouusetheadapter.Thisisnormal.Ifthelight remainsred, checktomakesuretheadapterisconnectedcorrectly.

If the adapter is plugged in and the adapter light does not turn on:

- Checktheadapterconnections.
- Ifyouareinanautomobile,turnontheautomobile'signition tosupplypowertotheadapter.Insomevehicles,powertothe cigarettelightersocketisalwaysonandyoudonotneedto turnontheignition.
- Ifyouareinanairplane,askyourflightattendantwhenpower willbeactivatedtotheportablecomputerconnector.The connectormaynotbeactivatedatcertaintimesduringyour flight.
- If the previous procedures do not activate the adapter, you may need to change the fuse in the adapter. To remove the fuse from the adapter, unscrew the adapter cap with a pair of pliers and remove the cap. Replace the fuse with an 8 ampfuse. In an automobile, you may need to replace the fuse in the cigarette lighters ocket.

Whenyouconnect the adapter to the cigarette lighter or the airplane connector, the battery starts charging immediately.



Topreventlossofdataandpossibledamageto thecomputer,unplugtheauto/airlineadapter whenstartingandstoppingtheautomobile engine. Youcanorderanothersmartlithium-ionbatterypackforyour computer.See"UsingtheBattery"onpage38forinformationonthe battery.



Figure25.SmartLithium-ionBattery

MemoryModules

Youcanincreasesystemmemorybyinstallinganoptionalmemory module.Youcomputercomeswithanon-removable32MBSDRAM SODIMMmoduleandcanbeupgradedbyinstalling32,64or128MB SDRAMSODIMMmodules.Themaximumsystemmemoryis160 MB.

> Additionalmemorymodulesmustonlybe installedbyanSamsungAuthorisedReseller. Toavoidpossiblesystemproblems,useonly Samsung-approvedmemorymodulesinyour computer.

SamsungResellers, please refer to your Samsung SN 6000 Series Service Manual formemory installation instructions.

The external numerickey padh as the same features as the integrated keypad. The external keypad plugs into the PS/2 mouse and keyboard port. See "Connecting Peripheral Devices" on page 24

ExternalCD-ROMDriveModule

TheCD-ROMdrivemodulecanbeconnected to your computer using the external module cable. See "Connecting External Modules" on page 29 and see "Using the CD-ROM Drive" on page 34 or directions on installing and using the CD-ROM drive.

ExternalDVD-ROMDriveModule

The external DVD-ROM drive module can be connected to your computer using the external module cable. See "Connecting External Modules" on page 29 and see "Using the CD-ROM Drive" on page 34 or directions on installing and using the DVD-ROM drive. There is MPEG2s of tware included with the drive that will enable you to play DVD movies from the DVD-ROM drive.



Figure26.ExternalDVD-ROMDriveModule

SamsungSN6000SeriesUser'sManual

UsingOptions95

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YoucanorderanadditionalPortReplicator.



Figure27.PortReplicator

Contactyourresellerforalistofotherdockingoptions available for your SN6000 computer. User's manual sare included with the docking options.

Table9givesthespecificationsforyourcomputer.

Table9.SystemSpecifications

| Dimension | | | | |
|------------------------------|------------------------|--|--|--|
| Systemwith12.1TFTLCD | | | | |
| Width | 11.7in(297mm) | | | |
| Height | 1.1in(28mm) | | | |
| Depth | 8.9in(225mm) | | | |
| Weight(withbatteryinstalled) | 4.2lbs(1.9kg) | | | |
| LCDviewingarea(12.1TFT) | 9.7x7.2in(246x184.5mm) | | | |
| | | | | |

| Environment | | | | |
|--|--|--|--|--|
| Ambienttemperature, operating | 41°–95°F(5 °–35°C) | | | |
| Ambienttemperature, storage | 14 ^o –112 ^o F(-10 ^o –44 ^o C) | | | |
| Relativehumidity(noncondensing), operating | 20–80% | | | |
| Relativehumidity(noncondensing), storage | 15–95% | | | |
| Altitude, operating | 0to8,000ft(0to2,348m) | | | |
| Altitude,storage | 0to40,000ft(0to12,192m) | | | |
| Shock,operating | 10Gfor11mshalfsine | | | |
| Shock,nonoperating | 60Gfor11mshalfsine | | | |

SamsungSN6000SeriesUser'sManual
SmartLithium-IonBattery

| 380g |
|----------|
| 10.8Vcc |
| 3200mAh |
| 2.5hours |
| 4hours |
| 2.5hours |
| |

| ACAdapter | | | |
|------------------|-----------------------|--|--|
| Width | 2.05in(5.2cm) | | |
| Height | 1in(2.6cm) | | |
| Length | 4.33in(11cm) | | |
| Weight | (0.21kg) | | |
| Operatingvoltage | 100-120VAC/200-240VAC | | |
| Linefrequency | 50/60Hz | | |
| Inputcurrent | 1.3A100V-0.7A240V | | |
| Outputcurrent | 2.63A | | |
| Outputvoltage | 19V | | |

YourSN6000Seriesdocumentationusesthefollowingabbreviations:

A Amperes AC Alternatingcurrent APM AdvancedPowerManagement ASK-IR Amplitudeshiftkeyedinfrared ATA ATattachment(referstothehard-driveinterfacein anAT-compatiblecomputer) **BIOS**......Basicinput/outputsystem C Centigrade CD Compactdisc **CD-ROM**...Compactdiscread-onlymemory cm Centimeters **COM** Communication(asincommunicationport) CMOS Complementarymetal-oxidesemiconductor CMYK Cyan-Magenta-Yellow-blacK DC Directcurrent dBA Decibelsacoustic DIN...... DeutscheIndustrieNormenuasschuss(German electricalstandardsassociation) DMA......Directmemoryaccess DPMS Displaypower-managementsignaling DRAM.....Dynamicrandomaccessmemory **ECP**......Extendedcapabilitiesport **EPP**......Enhancedparallelport F.....Fahrenheit FIR Fastinfrared ft Feet g gram G.....Gravity GB Gigabytes

hr hour

SamsungSN6000SeriesUser'sManual

Abbreviations99

Hz Hertz **IDE**......Integrateddriveelectronics in Inches I/O Input/Output IrDA InfraredDataAssociation IRO...... Interruptrequestline Kb/sec..... Kilobitspersecond **KB**......Kilobytes kg......Kilograms LAN..... Local-areanetwork lbs Pounds LBA Logicalblockaddressing LCD......Liquid-crystaldisplay m......Meters mA......Milliampere mAhr Milliamperehour MB..... Megabyte Mb/sec Megabitspersecond MHz Megahertz MIDI Musicalinstrumentdigitalinterface mm millimeter MPU Microprocessorunit ms Millisecond PDF Portabledocumentformat PC..... Personal computer PCI Peripheral component interconnect PCMCIA...PersonalComputerMemoryCardInternational Association POST Power-onself-test PS/2 PersonalSystem/2 RAM......Random-accessmemory RGB Red-Green-Blue ROM Read-onlymemory SDRAM Synchronousdynamicrandom-accessmemory

SamsungSN6000SeriesUser'sManual

Abbreviations100

SMART....Staticrandom-accessmemory

SRAMSelf-Monitoring,AnalysisandReporting Technology

SVGA Supervideographicsarray

TFT Thin-filmtransistor

USB Universalserialbus

V Volt

VAC Voltagealternatingcurrent

VCC Voltagecollectorcurrent

VDC Voltagedirectcurrent

VGA Videographicsarray

whr Watthour

XGA Extendedgraphicsarray

SamsungSN6000SeriesUser'sManual

ACadapter

TheAC(oralternatingcurrent)adapterregulatescurrentcoming intoyourcomputerfromthewalloutlet.Thecurrentatthewall outletisalternatingcurrentandneedstobechangedbytheadapter toDC(directcurrent)beforeyourcomputercanuseitforpower.

BIOS

BIOSstandsforbasicinput/outputsystem.TheBIOSissoftware (oftencalledfirmware)thatisindependentofanyoperating system.Itenablesthecomputertocommunicatewiththescreen, keyboard,andotherperipheraldeviceswithoutusingprogramson theharddisk.

TheBIOSonyourcomputerisflashBIOS, which means that it has been recorded on a flash memory chip that can be updated if needed.

Boot

Tostartyourcomputer.Acoldbootresetstheentirecomputerand runsthroughallcomputerself-tests.Awarmbootclearsout computermemoryonly.

Bootdisk

Adiskcontainingoperatingsystemprogramsrequiredtostart yourcomputer. Abootdiskcanbeafloppydisk, harddrive, or compactdisc.

Byte

Thebasicunitofmeasureforcomputermemory. Acharacter suchasaletterofthealphabet—usesonebyteofmemory. Computermemoryisoftenmeasuredinkilobytes(1,024bytes)or megabytes(1,048,576bytes).

Eachbyteismadeupofeightbits.Formoreinformationonbytes andbits, see an introductory book on computers.

Cachememory

timerequiredforthemicroprocessortogetthedataitneedsfrom themainmemorybystoringrecentlyaccesseddatainthecache.

CardBus

CardBustechnologyenablesthecomputertouse32-bitPCCards. HardwareinthecomputerandtheWindows980peratingsystem providesupportforthe32-bitcards.Thevoltageof32-bitcards (3.3volts)islowerthanthatof16-bitcards(5volts).The32-bit cardscantransmitmoredataatatimethanthe16-bitcards,thus increasingtheirspeed.

CMOSmemory

CMOS(complementarymetaloxidesemiconductor)memoryis poweredbytheCMOSbattery.TheSystemSetupsettingsand otherparametersaremaintainedinCMOSmemory.Evenwhen youturnyourcomputeroff,theinformationinCMOSmemoryis saved.

COMport

COMstandsforcommunication.COMportsaretheserialportsin yourcomputer.

Conventionalmemory

Thefirst640KBofsystemmemory.Operatingsystemsand applicationprogramscandirectlyaccessthismemorywithout using memory-managements of tware.

СМҮК

Acolormodelinwhichallcolorsaredescribedasamixtureof fourprocesscolors-Cyan,Magenta,YellowandBlack.CMYKis thestandardcolormodelusedinoffsetprintingforfull-color documents.Printedcolorslookthesameaswhatappearsonthe screen.

Disc

Acompactdisc(CD).

Disk

The device used by the computer to store and retrieve information. *Disk* can refer to a flop py disk, hard disk, or RAM disk.

Diskcache

Asoftwaredevicethataccumulatescopiesofrecentlyuseddisk sectorsinRAM. The application program can then read these

copies without accessing the disk. This, inturn, speeds up the performance of the application.

AcacheisabufferfortransferringdisksectorsinandoutofRAM. Datastoredinadiskcacheisacopyofdataalreadystoredonthe physicaldisk.

DMA(directmemoryaccess)

Amethodoftransferringdatafromadevicetomemorywithout havingthedatapassthroughthemicroprocessor.UsingDMAcan speedupsystemperformance.

Floppydisk

Aremovabledisk, also called *floppy*or *diskette*.

Harddrive

Alsocalled *fixed*disk.Aharddriveisconnectedtothecomputer and can be installed or removed.Datawritten to a harddrive remains untilities over written or corrupted.

The 2.5-inchhard drive iny our computer was designed for use in a portable computer. Because hard drives in portable computers are smaller than those indesk top computers, their maximum storage capacity may be less than that of desk top hard drives. However, because of their smaller size, the drives handle shock and vibration better than larger drives, which is important for a portable computer.

I/O

Input/output.Referstoperipheraldevices, such as printers, that are addressed through an I/O address.

I/Oaddress

I/Ostandsforinput/output.Peripheraldevices, such as printers, are addressed through the I/Oportad dress.

IRQ(interruptrequestline)

TheIRQ is a hardware line that a device uses to signal the microprocessor when the device needs the microprocessor's services. The number of IRQ sislimited by industry standards.

LCD(liquid-crystaldisplay)

The LCD screen on your computer differs from the displays creen of a desk topmonitor. Most desk topmonitor suse CRT (cathode-ray tube) displays, which work by moving an electron beam across the second se

phosphordotsonthebackofthescreen.Thephosphordotslight uptoshowtheimage.LCDsusealiquid-crystalsolutionbetween twosheetsofpolarizingmaterial.Electriccurrentpassingthrough theliquidalignsthecrystalssothatlightcanorcannotpass throughthem,creatinganimage.

MB

1,024kilobytes.

Megabit

1,048,576bitsorabout128kilobytes.

Operatingsystem

Aprogramthatsupervises the computer's operation, including handling I/O. Application programs and users can request operating-systems ervices. Ausermight request operation-system services to copy files or formatadisk. An application program might use the operating system to obtain keyboard input, write datatoa file, or write datatoa screen.

PCCard

PCCardstandsforpersonalcomputercard. ThePersonal ComputerMemoryCardInternationalAssociation(PCMCIA) definesthestandardsusedtodevelopallPCCards.PCCardtypes include:modems,Ethernetadapters,SCSIadapters,ATAcards, andmemorycards.

PCslot

ThePCslotisthehardwareslotinthecomputerwherethePC Cardisplaced.

Pixel

Apixelisanindividualdotinagraphicdisplayedonyour computer. The pixels are soclose together that the ylook as though the yare connected. An LCD screen displays thous and sormillions of pixels.

PlugandPlay

Aplugandplayoperatingsystemautomaticallyconfigures computercomponentstoworkwithyoursystem.Withthistypeof operatingsystem,younormallydonotneedtosetjumperson devicesorsetmemoryaddressesorIRQs.

POST

POSTstandsforpower-onself-test.POSTisatestperformedby the computer whenevery outurn on the power.POST checks system integrity.

RAM(randomaccessmemory)

The computer's systemmemory, including conventional and extended memory. You can write to and read from RAM. Information stored in RAM is temporary, and is erased when the system is turned off.

Refreshrate

TherefreshrateistherateatwhichtheimageontheLCDscreen isrewrittentothescreen. Afastrefreshratehelpskeeptheimage fromflickering.

Resolution

Theresolutionisthesharpnessorclarityoftheimageonyour LCDscreen.Resolutionismeasuredbythenumberofpixelsthe computer'sscreencandisplay.Forexample,aresolutionof 800x600meansthatthescreencandisplay800pixelsinrowand candisplay600rows.Themorepixelsdisplayed,thehigherthe resolutionandthebettertheimage.

ROM(read-onlymemory)

Permanent computer memory dedicated to a particular function. For example, the instructions for starting the computer when you first turn on power are contained in ROM. You cannot write to ROM. (ROM is not the same as RAM).

Sector

Alsoknownas *disksector*. Theportionofatrackthatisnumbered and canhold aspecified number of characters (usually 512KB).

ShadowRAM

Awrite-protected area of RAM that contains a copy of the BIOS. As the computer boots, the BIOS is copied from its permanent location in ROM to RAM. The BIOS can be executed much faster in RAM than in ROM. The BIOS remains in shadow RAM until youturn off the computer.

RGB

Acolormodelgenerally used by display devices. Colors are described as a mixture of Red, Green and Blue.

TFT(thinfilmtransistor)LCD

ATFTLCDusesaseparatetransistorcircuittocontroleachpixel. ThistechnologyprovidesthebestresolutionforanLCDscreen.A TFTLCDisalsosometimescalledanactivematrixLCD.

Zoomedvideo

ZoomedvideotechnologyenableszoomvideoPCCardtotransfer datadirectlyfromthecardtovideoandaudiosystemswithout goingthroughthemicroprocessor.Thisprocessimprovesvideo performance.Videoconferencingandreal-timemultimedia devices,suchasvideocameras,aresupportedbyzoomvideo.

RecordingtheComputerHardware Configuration

In the space sprovided, write the System Setup programs ettings. If your computer everloses configuration information, you can enter the information from this section into System Setup to restore it.

MAINMENU

| LegacyDisketteA | : Disabled | 1.44/□25M | B3 | 1/2 |
|-----------------|--------------------|------------|------|----------|
| IDEADAPTER1 | SUBMENU | | | |
| IDEAda | pter1: | | | |
| | Туре: | Cylinders | : | |
| | Heads: | Sectors: | | |
| | Multi-SectorTransf | ers: | | |
| | LBAModeControl: | Enal | oled | Disabled |
| | 32BitI/O: | Enal | oled | Disabled |
| | TransferMode: | □ Standard | | |
| | □ Fast | PIO1 | □Fa | stPIO2 |
| | □ Fast | PIO3 | □Fa | stPIO4 |
| | 🗆 FPI | O3/DMA1 | □PI | 04/DMA2 |
| | UltraDMA: | □ Mode0 | Пю | de1 |
| | | □ Mode2 | □Di | sabled |
| IDEADAPTER2 | SUBMENU | | | |
| IDEAda | pter2: | | | |
| | Type: | Cylinders | : | |
| | Heads: | Sectors: | | |
| | Multi-SectorTransf | ers: | | |
| | LBAModeControl: | □Enat | oled | Disabled |
| | 32BitI/O: | Enal | oled | Disabled |
| | TransferMode: | □ Standard | | |

SamsungSN6000SeriesUser'sManual RecordingtheComputerHardwareConfiguration

| □ Fast | □FastPIO2 | | |
|------------------------|------------------|---------------|--|
| □ Fast | □ FastPIO3 | | |
| □ FPI | □ FPIO3/DMA1 | | |
| UltraDMA: | □ Mode0 | □/Iode1 | |
| | □ Mode2 | Disabled | |
| MEMORYCACHESUBMENU | | | |
| MemoryCache: | □ Enabled | □ Disabled | |
| CacheExtendedMemoryAre | ea: 🗆 Write Back | a 🛛 🖓 ncached | |
| | W□iteThrough | W□teProtect | |
| CacheD400-D7FF | Disabled | □WriteThrough | |
| | U WriteProtec | t 🛛 WriteBack | |
| CacheD800-DBFF | Disabled | □WriteThrough | |
| | U WriteProtec | t 🛛 WriteBack | |

ADVANCEDMENU

PS/2MOUSECONFIGURATIONSUBMENU

| | MouseConfiguration: | | □ Enabled | □ Disabled | |
|--------|----------------------------|-----------|-------------|-------------|--------|
| | MouseOperationMode: | | □SingleMous | e DualMouse | • |
| I/ODEV | ICECONFIGU | RATIONSUB | MENU | | |
| | SerialportA: | □Enabled | Disable | l 🗆 Auto | |
| | BaseI/ | Oaddress: | □3F8,IRQ4 | □F8,IRQ3 | |
| | | | □ 3E8,IRQ4 | □2E8,IRQ3 | |
| | SerialportB: | | led □Disal | bled | |
| | BaseI/ | Oaddress: | □3F8,IRQ4 | □F8,IRQ3 | |
| | | | □ 3E8,IRQ4 | □2E8,IRQ3 | |
| | Mode: | □ FIR | 🗆 Normal | | ASK-IR |
| | DMAG | Channel: | DMA1 | DMA3 | |

SamsungSN6000SeriesUser'sManual RecordingtheComputerHardwareConfiguration

| Parallelport: | 🗆 Ena | bled | 🗆 Disal | bled | Aut | 0 |
|----------------------|-----------|----------|---------|--------|-----------|---------|
| Mode: | 🛛 Bi-o | directio | nal 🗌 | Output | tonly | |
| | EP | Р | □ E(| CP | | |
| BaseI/Oad | dress: | □37 | 8,IRQ7 | □78 | 3,IRQ5 | |
| | | □ 27 | '8,IRQ7 | ₽7 | 8,IRQ5 | 5 |
| | | □ 3H | BC,IRQ7 | B | BC,IR(| Q5 |
| DMAChannel: | | 🗆 DN | /IA1 | | 2 | |
| FloppyDiskContro | ller: | □Ena | abled | □Disat | oled | □Auto |
| | | | | | | |
| InstalledO/S: | 🗆 Win | 95/Wir | 198APM | | ther | |
| | 🗆 Wii | n98ACI | PI/WinN | Г5.0 | | |
| | | | | | | |
| Boot-timeLogoScreen: | □Enal | oled | Disa | abled | | |
| QuickBootMode: | 🗆 Ena | bled | 🗆 Dis | abled | | |
| CPUBIOSUpdate: | □Enal | oled | Disa | abled | | |
| USBDevice: | 🗆 Ena | bled | 🗆 Dis | abled | | |
| ScreenExpansion: | 🗆 Ena | bled | 🗆 Dis | abled | | |
| TVStandard: | □ NTS | SC | 🗆 PA | L | 🗆 PA | L-M |
| | | L-60 | 🗆 NT | SC-J | \Box SC | ART-PAL |
| LocalBusIDEadapter: | Both | | Disa | bled | | |
| | 🗆 Pri | mary | □ Sec | ondary | | |
| LargeDiskAccessMode: | | | Dth | er | | |

SECURITYMENU

| Passwordonboot: | Enabled | Disat | oled |
|-----------------------|------------|--------------|---------------------|
| Fixeddiskbootsector: | Normal | Write | Protect |
| Disketteaccess: | □ User | □ Supervisor | |
| Viruscheckreminder: | □ Daily | □ Weekly | □ Monthly |
| | □ Disable | d | · |
| Systembackupreminder: | Daily | □Weekly | □Monthly |
| | Disable | d | - |
| POWERMENU | | | |
| PowerSavingsMode: |] Max.Powe | rSavings | □Max.Performance |
| StandbyTimeout: | □ Off | Time | 2 |
| RestMode: | D PowerO | nSuspend | □ SaveToDisk |
| RestTimeout: | □ Off | Time | |
| ResumeOnTime: DOn | □Off | | |
| ResumeTime: | | | |
| BOOTMENU | | | |
| FloppyCheck: | □ Enabled | 🗆 Disa | bled |
| SummaryScreen: | □ Enabled | 🗆 Disa | bled |
| BOOTDEVICEPRIORITYS | SUBMENU | | |
| Bootoption1: | | | |
| Bootoption2: | | | |
| DOOLODUOUS: | | | |

SamsungSN6000SeriesUser'sManual RecordingtheComputerHardwareConfiguration

Index

Numerics

32BitI/Ofield 49

A

Abbreviations 99 ACadapter 102 optional 91 using 7 voltage 7 Adjusting brightness 10,18 contrast 10,18 display 10 Advancedmenu,SystemSetup 50 Auto/airlineadapter 92

В

Backingupsoftware 88 Backlightkeys 17 Battery charging 7 CMOS(complementarymetaloxidesemiconductor) 90 conservingpower 55 disposing of 39 MainBatteryLights 42 monitoringcharge 41 optional 94 safety 39 warnings 43 BatteryCalibrationfield 58 Batterychargelight 21 Batterygauge 42 displaying 17 keys 17 Batterylowwarning 43 Batteryverylowwarning 43

BIOS(basicinput/outputsystem) 102 onWebsite 80 updating 80 Boot 56,102 cold 11 warm 11 BootDevicePriorityfield 56 Bootdisk 102 Bootmenu,SystemSetup 56 Bootsector 61 Boot-timeLogoScreenfield 52 Brightness adjustmentkeys 10,18 powermanagement 63 Byte 102

С

CacheD400-D7FFfield 50 CacheD800-DBFFfield 50 CacheExtendedMemoryAreafield 50 Cachememory 88,103 CapsLock light 21 CardBus 75,103 CardWizard 78 **CD-ROM**drive configuring 47 optional 95 using 34 CMOS(complementarymetal-oxide semiconductor) battery 90 memory 103 CMYK(Cyan-Magenta-YellowblacK) 103 Color 8-hit 69 16-bit 69

SamsungSN6000SeriesUser'sManual

24-bit 69 32-bit 69 depth 72 COMport 103 Configuring computer 44 videofeatures 69 Connectingperipheraldevices 24 Contrast adjustmentkeys 10,18 Conventionalmemory 103 CPUBIOSUpdatefield 52 CRT/LCDkeys 17 Cursorcontrolkeys 16 Cvlindersfield 48

D

device 56 Disassemblywarning 12 Disc 103 DiscardChangesfield 58 Disk 103 Diskcache 104 Disksector 106 Disketteaccessfield 54 Display adjusting 10 changing 17 Disposingofbatterypacks 39 DMA(directmemoryaccess) 104 Dockingoptions 96 Drivelight 21 Drivers 83 DVD-ROMdrive optional 95

Ε

ExitDiscardingChangesfield 57 Exitmenu,SystemSetup 57 ExitSavingChangesfield 57 ExtendedMemoryfield 50 Externalmodulecable connecting 30 removing 30 ExternalModules Hotswapping 30 Externalmonitor 71,89 changingto 17 Externalnumerickeypad 95

F

FAT-16 37 FAT-32.37 Fixeddiskbootsectorfield 54 Floppycheckfield 56 Floppydisk 104 Floppydiskcontrollerfield 52 Floppydrive connectingtotheexternalmodule cable 29 preventinguseof 61 using 32 Functionkevs 16 Fn+F1 17 Fn+F2 17 Fn+F4 17 Fn+F5 17 Fn+F6 17 Fn+F7 17 Fn+F8 17 Fn+F9 17 Fn+F10 17 Fn+F11 17.64 Fn+F12 17 Fn+DownArrow 18 Fn+LeftArrow 18 Fn+RightArrow 18 Fn+UpArrow 18

G

Glossary 102

SamsungSN6000SeriesUser'sManual

Η

Harddrive 104 configuring 47 lockingthebootsector 61 partitions 37 using 37 Hardwarespecifications 97 Headsfield 48 Hotswapping 30

Icons port 26 statuslights 20 IDEAdapter1field 47 IDEAdapter2field 47 Infrared,troubleshooting 85 InstalledO/Sfield 52 Installing mainbattery 39 PCCard 76 peripheraldevices 24 IRQ(interruptrequestline) 83,104 I/ODeviceConfigurationMenu 51 I/O(input/output) 104

K

Keyboard locking 17,62 using 15

L

LargeDiskAccessModefield 53 LBAModeControlfield 49 LCD adjustingbrightness 18 brightness 63 LCD(liquid-crystaldisplay) 88,104 LegacyDisketteAfield 47 Lights,systemstatus 20 Liquids, precautions 14 LoadSetupDefaultsfield 57 LocalBusIDEadapterfield 53 locking 61

Μ

Mainmenu,SystemSetup 47 MaximumCapacityfield 48 Memory cache 49.88.102 CMOS(complementarymetaloxidesemiconductor) 103 conventional 103 MemoryCachefield 50 MemoryCachemenu 49 Memorymodules installing 94 sizes 94 Menus, SystemSetup 45 Monitor external 89 selectingtype 71 MouseConfigurationfield 50 MouseOperationModefield 50 Multi-SectorTransfersfield 49 Mutekeys 17

Ν

Non-turbomode 63 NumLock light 21 Numerickeypad 16,89

0

Onlinemanual, accessing 2 Operating system 105 Options 91

Ρ

Parallelportfield 51 Passwordonbootfield 53

SamsungSN6000SeriesUser'sManual

Passwords forfloppydrive 61 onboot 61 overview 59 PCCard 16-hit 75 32-hit 75 CardBus 75,103 CardWizard 78 definition 105 installing 76 maintaining 76 removing 76 restmode 78 slot 105 stoppinginCardWizard 78 troubleshooting 90 types 75 using 75 Windows98 77 WindowsNT4.078 zoomedvideo 75.107 Peripheraldevices, connecting 24 Pixel 69,105 Plugandplay 105 Porticons 26 POST(power-onself-test) 106 beepcodes 9 screenmessages 9 Powerbutton 9 Powerlight 21 Powermanagement features 63 LCDbrightness 63 restmode 64 standbymode 63 SystemSetupfields 55 Powermenu,SystemSetup 55 Poweronsuspendmode 64 PowerSavingModefield 55 PowerProfiler

monitoringthebattery 42 power-managementfeatures 65 Precautions operating 11 restmode 65 Printscreenkeys 17 ProductSupportHot-line 87 PS/2MouseConfigurationMenu 50

Q

QuickBootModefield 52

R

RAM(randomaccessmemory) 106 Rebootingthecomputer 11 Refreshrate 106 Removing mainbattery 39 PCCard 76 Resolution 69.72.106 Restkevs 17 Restmode entering 17 requiringapasswordfor resume 61 settingtimeoutfor 56 using 56 restmode precautions 65 RestModefield 55 RestTimeoutfield 56 Restartingthecomputer 11 RestoreCD-ROM 83.88 ResumeOnTimefield 56 ResumeTimefield 56 ROM(read-onlymemory) 106

S

SamsungWebsite 4,87 SaveChangesfield 58 SavetoDiskmode 55

SamsungSN6000SeriesUser'sManual

ScreenExpansionfield 52 ScrollLock keys 17 light 21 Sector 106 Sectorsfield 48 Securityfeatures 59 SecurityMenu.SystemSetup 53 SerialportAfield 51 SerialportBfield 51 SetSupervisorPasswordfield 53 SetUserPasswordfield 53 ShadowRAM(randomaccess memory) 106 Shuttingdownthecomputer 10 SMARTMonitoring 49 SmartBayHotswapUtility 30 Software backingup 88 documentation 4 Spills.handling 13 Standbymode settingtimeoutfor 55 using 64 StandbyTimeoutfield 55 StartingSystemSetup 45 Storingthecomputer 14 Summaryscreenfield 56 SuspendtoRAM 56 Systembackupreminderfield 54 SystemDatefield 47 SystemMemoryfield 50 Systemrequestkeys 17 Systemresources 83 SystemSetup Advancedmenu 50 Bootmenu 56 Exitmenu 57 help 46 keys 45 Mainmenu 47

menus, overview 45 overview 44 Powermenu 55 recordingsettings 108 Securitymenu 53 starting 45 submenus 46 using 46 Systemstatuslights 20 SystemTimefield 47

Т

TFT(thinfilmtransistor)LCD 69,107 Tipsforusingthecomputer 11 Touchpad 19 TransferModefield 49 Travelingwiththecomputer 13 Troubleshooting 87 Turbomode 63 Turningonthecomputer 8 TVStandardfield 53 TV-out(composite) TV-out(composite) 27 Typefield 48

U

UltraDMAModefield 49 USBcontrollerfield 52 using 27

V

Video colordepth 69 configuring 69 configuringdisplay 70 drivercapabilities 69 refreshrate 106 resolution 69,106 Videodriver changing 72 Viruscheckreminderfield 54

SamsungSN6000SeriesUser'sManual

Volumecontrolkeys 17

W

Windows98 27 accessingonlinemanual 2 changingthevideodriver 72 hotswappingexternalmodules 30 keys 16 PCCard 77 WindowsNT4.0 accessingonlinemanual 2 changingthevideodriver 73 PCCard 78

Ζ

Zoomedvideo 75,107

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