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You can read the recommendations in the user guide, the technical guide or the installation guide for ACER ASPIRE M5811. You'll find the answers to all your questions on the ACER ASPIRE M5811 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ACER ASPIRE M5811**  
**User guide ACER ASPIRE M5811**  
**Operating instructions ACER ASPIRE M5811**  
**Instructions for use ACER ASPIRE M5811**  
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Service Guide

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**Manual abstract:**

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FRU Information Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines. vi Table of Contents System Tour Features Block Diagram System Components Front Panel Rear Panel Hardware Specifications and Configurations Power Management Function(ACPI support function) 1 1 4 5 5 6 7 10 System Utilities CMOS Setup Utility Entering CMOS setup Navigating Through the Setup Utility Setup Utility Menus 11 11 12 12 13 System Disassembly Disassembly Requirements Pre-disassembly Procedure Removing the Side Panel Removing the Heat Sink Fan Assembly Removing the Processor Removing the VGA Card Removing the TV Tuner Card Removing the Mode Card Removing the Hard Disk Drive Removing the Front Bezel Removing the Optical Drive Remove Cables Remove System FAN Removing the Power Supply Removing the Memory Modules Removing the Mainboard 26 26 27 28 29 30 31 32 32 33 35 36 37 38 39 40 41 System Troubleshooting Power-On Self-Test (POST) POST Error Messages List Error Symptoms List Undetermined Problems 42 43 48 55 60 Jumper and Connector Information M/B Placement Jumper Setting 61 61 63 FRU (Field Replaceable Unit) List Aspire M5811 Exploded Diagram Aspire M5811 FRU List 69 70 72 Intel RAID SOP 80 vii Chapter 1 System Tour Features Below is a brief summary of the computer's many feature: NOTE: The features listed in this section is for your reference only.

The exact configuration of the system depends on the model purchased. Operating System . . . Windows 7 Home Premium 64 bits Windows 7 Home Premium 32 bits (by request) Windows 7 Home Basic 32 bits (by request) Linpus X-window mode (by request) Processor . . . Socket Type: Intel Socket H2 ,LGA 1156 pin Socket Quantity: 1 Processor Type: . . Inte Lynnfield/Clarkdale with 45nm family mainstream processorsl Celeron 450 processor 2009B Mainstream (95W) FMB Chipset . Intel H57 (Ibex Peak) PCB . 4 Layer uATX form factor 9.6in X 9.6in (24.38cm X 24.

38cm) Memory subsystem . . Socket Type: DDR III Un-buffered DIMM connector Socket Quantity: 4 . . 2 channels, 2 DIMMs per channel. Different colors for DIMM 0 and DIMM 1 . . . Max memory of 8 GB supported (using 2Gb tech) DDR3 1.5V 1066/1333 (1GB / 2GB / 4GB) Design Criteria: . . . Must meet Intel Lynnfield and Clarkdale Chipset platform design guide Support 1.5V DIMM Dual channel should be enabled always when plug-in 2 same memory size DDRIII. memory module Hard disk . . Support up to two SATA ports 3.5", 25.4mm Chapter 1 1 . Capacity and models are listed on AVL C Optical disk . . . Support one SATA 5.25" standard ODD Support DVD-ROM, DVD-SuperMulti, BD-combo, BD-rewrite Maximum ODD depth to 185mm with bezel Models are listed on AVL C Graphics card . No mechanical retriCTION to support for double slot, full length graphics cards in the single PS1e X16 slot Serial ATA controller . . Slot Type: SATA connector Six SATA ports: . . 4 for HDD 2 for ODD 1.HDD : Support RAID 0/1/5/10 2.Blue Ray ODD 3.

AHCI mode supported for internal SATA port . Storage Type support: . Slot Type :e-SATA connector : . . Controller: JMB362-QGEZ0A 2x e-SATA with red color connector at rear IO Audio . . Chip : Realtek ALC888S HD Audio Codec 7.1 with Dolby HT Connectors support: . . Rear 6 jack follow HD audio definition including optical S/PDIF output Audio jacks color coding: should meet Microsoft Windows Logo Program Device Requirements: Audio-0002 1 S/PDIF internal port 1 front panel audio header (2\*5) . . LAN . . Controller: Intel PCI-E Gbt LAN controller/PHY RJ-45 Back panel port with Link/Activity LEDs USB ports . Supports 14 USB ports. All USB ports must be boot-capable includes USB-ODD, USB-HDD, USB-FDD, and etc... All USB ports must be 2.0 certified. All USB ports must provide the over current protection. 6 USB port located on rear panel and the others located on front bezel and top bezel. . . Extension slot . Support one PCIe x 16 slot 2 Chapter 1 . Support two PCIe x 1 slots Support one PCIe x 4 slot Total I/O ports . . . . . One RGB output (Clarkdale CPU only in Q1'10) One HDMI output (Clarkdale CPU only in Q1'10) One RJ45header 10 USB ports (6 on the back, 2 on top and 2 on the front Two e-SATA.

Five HD audio in/out put plus optical SPDIF. One HD headphone output in front bezel One MIC-IN in front bezel Multi-in-1 card reader (SD , MMC , Mini-SD , Micro-SD (T-flash) , RS-MMC, Mobile -MMC ,MMC-micro, MS , MS-PRO , MS Duo , MS-PRO Due , Micro-MS(M2), xD type M and Type H card, CF type I and II, Microdrive) System BIOS . . Size: 4 ~ 8Mb Phoenix Award or AMI Kernel with Acer skin Power supply . . . . Up to 500watt power rating Active PFC 220V for EMEA and China Non-PFC 110V and 220V with select switch. Active PFC 220V with Energy Star 5.



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0 Chapter 1 3 Block Diagram POWER SUPPLY VREG VRD11.1 CHANNE A DDR SDRAM(800/1066/1333) L 3 DDR3 SDR CONN 0 AM DDR3 SDRAM CON 1 N XDP INTEL PROCESSOR LYNNFIELD/HAVENDALE LGA1156 P ( G N2) x16 CIE E CHANNE B DDR3 SD L RAM(800/1066/1333) DDR3 SDR CONN 2 AM DDR3 SDRAM CON 3 N PCIE (GEN 2) X16 XDP C K505 CLOCK PCIE X1 P E RE CI XP SS PCIE X SS PRE PCIE X1 P E RE CI XP SS LAN rear 1394 port PCIE X4 P E RE CI XP SS P E RE CI XP SS JMB362 INTEL PCH P CI VT6308 Front 1394 header USB BP\*6 / FP\*8 eSATA X2 H DMI VGA AUDIO CODEC S PI LP C SATA 2.

0 (6 PORTS) SPI SIO PS2 4 Chapter 1 System Components This section is a virtual tour of the system's interior and exterior components. Front Panel 12 1 11 10 2 3 9 4 5 8 7 6 No. 1 2 3 4 5 6 7 8 9 10 11 12 Component USB 2.0 ports Micro SD/M2 slot CF I/II (CompactFlash Type I/II) slot XD(XD-PICTURE) slot Optical drive Acer logo Optical drive button SD(Secure Digital) slot Power button Memory stick PRO slot Headphone/Speaker-out/line-out jack Microphone-in jack Chapter 1 5 Rear Panel 1 19 2 3 4 18 17 16 15 5 6 7 8 9 14 13 10 12 11 No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 Component Power connector PS2 mouse port Line-out jack HDMI port eSATA port USB 2.

0 ports S/PDIF port Microphone/speaker-out/line-in jack Line-out jack Expansion slot (graphics card and TV tuner card and Mode card) Surround rear L/R Line-in jack USB 2.0 ports Center speaker/subwoofer jack LAN connector 1394 port System FAN VGA port PS2 keyboard port Fan aperture 6 Chapter 1 Hardware Specifications and Configurations Processor Item Processor Type Specification Lynnfield/Clarkdale with 45nm family mainstream processors. 2009B Mainstream (95W) FMB. IIntel Socket H2 ,LGA 1156 pin 1333 MHz 0 MHz (If Stop CPU Clock in Sleep State in BIOS Setup is set to Enabled.) Socket Type FSB Minimum operating speed BIOS Item BIOS code programer BIOS version BIOS ROM type BIOS ROM size Support protocol Device Boot Support Specification AMI Kernel with Acer skin P01-A0 SPI ROM 4-8Mb SMBIOS(DMI)2.4/DMI2.0 Support BBS spec 1st priority: HDD 2nd priority: CD-ROM 3th priority: LAN 4th priority: USB device YES Support to LS-120 drive Support to BIOS boot block feature YES IOS Hotkey List Hotkey Del Function Enter BIOS Setup Utility Description Press while the system is booting to enter BIOS Setup Utility. Main Board Major Chips Item North Bridge South Bridge Audio controller LAN controller HDD controller Specification Intel P55&H57 Intel P55&H57 Realtek ALC888S Intel PCI-E Gbt LAN controller/PHY Intel P55&H57 Chapter 1 7 Memory Combinations Slot Slot 1 Slot 2 Slot 3 Slot 4 Memory 1MB,2GB 1MB,2GB 1MB,2GB 1MB,2GB 1MB,2GB Total Memory 1G ~2GB 1G ~2GB 1G ~2GB 1G ~2GB 1G ~8GB Maximum System Memory Supported System Memory Item Memory slot number Support Memory size per socket Support memory type Support memory interface Support memory voltage Support memory module package Support to parity check feature Specification 4 slot 1GB/2GB DDRIII DDRIII 1066/1333MHz 1.5V 240-pin DDRII Yes Support to error correction code (ECC) feature No Memory module combinations You can install memory modules in any combination as long as they match the above specifications. Audio Interface Item Audio controller Audio controller type Audio channel Audio function control Mono or stereo Compatibility Specification Realtek ALC888S ALC8662-VC codec 7.

1 Enable/disable by BIOS Setup Stereo The ALC888S-VC series support host audio controller from the Intel ICH series chipset, and also from any other HDA compatible audio controller. With EAX/Direct Sound 3D/I3DL2/A3D compatibility, and excellent software utilities like environment sound emulation, multiple bands of software equalizer and dynamic range control, optional Dolby, Digital Live, DTS CONNECT, and Dolby Home Theater programs, provides an excellent home entertainment package and game experience for PC users. 192 KHz (max.) No Supported Sampling rate MPU-401 UART support Microphone/Headphone jack 8 Chapter 1 SATA Interfam RAM which allows configuration data to be retained when power is turned off. Before you run the CMOS Setup Utility, make sure that you have saved all open files. The system reboots immediately after you close the Setup. NOTE: CMOS Setup Utility will be simply referred to as "BIOS", "Setup", or "Setup utility" in this guide. The screenshots used in this guide display default system values. These values may not be the same those found in your system. Chapter 2 11 Entering CMOS setup 1.

Turn on the server and the monitor. If the server is already turned on, close all open applications, then restart the server. 2. During POST, press Delete. If you fail to press Delete before POST is completed, you will need to restart the server.

The Setup Main menu will be displayed showing the Setup's menu bar. Use the left and right arrow keys to move between selections on the menu bar.

Navigating Through the Setup Utility Use the following keys to move around the Setup utility. . . . . Left andled, the BIOS splash screen displays during startup. When disabled, the diagnostic screen displays during startup.

Specifies the boot order from the available devices. Option Enabled Disabled Enabled Disabled Hard Disk CD^DVD Removable Device LAN Hard Disk Drive Removable Device CD/DVD Drives Bootup Num-Lock USB Beep Message Press Enter to access the Hard Disk Drive Priority submenu and specify the boot device priority sequence from available hard drives. Press Enter to access the Removable Device Priority submenu and specify the boot device priority sequence from available removable drives. Press Enter to access the Optical Disk Drive Priority submenu and specify the boot device priority sequence from available CD/DVD drives. Selects power on state for Num Lock. Enables or disables BIOS to display error beeps or messages during USB device enumeration. On Off Disabled Enabled 16 Chapter 2 Advanced Chipset Features Parameter Intel EIST Intel XD Bit Description When enabled, this feature allows the OS to reduce power consumption. When disabled, the system operates at maximum CPU speed. When enabled, the processor disables code execution when a worm attempts to insert a code in the buffer preventing damage and worm propagation. When disabled, the processor forces the Execute Disable (XD) Bit feature flag to always return to 0.

Option Enabled Disabled Enabled Disabled Intel VT Enables or disables the Virtualization Technology (VT) availability. If enabled, a virtual machine manager (VMM) can utilize the additional hardware virtualization capabilities provided by this technology. Note: A full reset is required to change the setting. For Intel platform Enables or disables remapping of overlapped PCI memory above the total physical memory.



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Select a graphic controller as a primary boot device. Enabled Disabled Intel VT-d Memory Hole Remapping Primary Video Enabled Disabled Enabled Disabled Auto PCIE Onboard VGA DVMT Mode Select DVMT/Fixed Memory You can choose the Fixed Mode or DVMT Mode. The setting is only available for WinXp. Not supported Chapter 2 17 Integrated Peripherals Parameter Onboard ESATA Controller Onboard SATA Controller Onboard SATA Mode Onboard USB Controller Legacy USB Support Onboard Audio Controller Onboard LAN Controller Onboard LAN Option ROM Description Enables or disables the onboard ESATA controller. Enables or disables the onboard SATA controller. Select an operating mode for the onboard SATA. Enables or disables the onboard USB controller. Enables or disables support for legacy USB devices. Enables or disables the onboard audio controller. Enables or disables the onboard LAN controller. Enables or disables the load of embedded option ROM for onboard network controller.

Option Enabled Disabled Enabled Disabled RAID Native IDE Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled 18 Chapter 2 Power Management Setup Parameter ACPI Suspend Mode High Performance Event Timer Power On by RTC Alarm Power On by PCIE Devices Power On by Onboard Lan Wake Up by PS/2 KB/ Mouse Wake Up by USB KB/ Mouse Restore On AC Power Loss Description Select an ACPI state. Enables or disables High Performance Event Timer Enables or Disables to wake up the system by RTC Alarm Function Enables or disables to wake up the system from a power saving mode through an event on PCI Express device. Enables or Disables to wake up the system by Onboard Lan function Enables or disables to wake up the system from a power saving mode using a PS2 keyboard or mouse. If enabled, press any key or click the mouse will wake system from S1/ S3 state. Enables or disables the system to reboot after a power failure or interrupt occurs.

Option S3 (STR) S1 (POS) Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Power Off Power On Last State Enabled Disabled Deep power off mode Select the Deep power off Mode Chapter 2 19 PC Health Status Parameter Smart FAN Description Enables or disables the smart system fan control function. Option Enabled Disabled 20 Chapter 2 Frequency/Voltage Control Parameter Spread Spectrum Description Enables or disables the reduction of the mainboard's EMI. Note: Remember to disable the Spread Spectrum feature if you are overclocking. A slight jitter can introduce a temporary boost in clock speed causing the overclocked processor to lock up. Option Enabled Disabled Chapter 2 21 BIOS Security Features Parameter Supervisor Password User Password Change Supervisor Password Description Indicates the status of the supervisor password. Indicates the status of the user password. Supervisor password prevents unauthorized access to the BIOS Setup Utility. Press Enter to change the Supervisor password. Setting a supervisor password 1. Use the up/down arrow keys to select Change Supervisor Password menu then press Enter.

A password box will appear. 2. Type a password then press Enter. The password may consist up to six alphanumeric characters (A-Z, a-z, 0-9) 3. 4. 5. Retype the password to verify the first entry then press Enter again. Press F10. Select Yes to save the new password and close the Setup Utility. Changing the supervisor password 1. 2. 3. 4. 5. 6.

Use the up/down arrow keys to select Change Supervisor Password menu then press Enter. Type the original password then press Enter. Type a new password then press Enter. Retype the password to verify the first entry then press Enter again. Press F10.

Select Yes to save the new password and close the Setup Utility. Removing a supervisor password 1. 2. 3. Use the up/down arrow keys to select Change Supervisor Password menu then press Enter. Enter the current password then press Enter. Press Enter twice without entering anything in the password fields.

22 Chapter 2 Load Default Settings The Load Default Settings menu allows you to load the default settings for all BIOS setup parameters. Setup defaults are quite demanding in terms of resources consumption. If you are using low-speed memory chips or other kinds of low-performance components and you choose to load these settings, the system might not function properly.

Chapter 2 23 Save & Exit Setup The Save & Exit Setup menu allows you to save changes made and close the Setup Utility. 24 Chapter 2 Exit Without Saving The Exit Without Saving menu allows you to discard changes made and close the Setup Utility. Chapter 2 25 Chapter 3 System Disassembly This chapter contains step-by-step procedures on how to disassemble the desktop computer for maintenance and troubleshooting. Disassembly Requirements To disassemble the computer, you need the following tools: . . . . . Wrist grounding strap and conductive mat for preventing electrostatic discharge Flat-blade screwdriver Philips screwdriver Hex screwdriver Plastic flat-blade screwdriver Plastic tweezers NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. Chapter 3 26 Pre-disassembly Procedure Before proceeding with the disassembly procedure, perform the steps listed below: 1. 2. 3. 4. 5.

Turn off the system and all the peripherals connected to it. Unplug the power cord from the power outlets. Unplug the power cord from the system. Unplug all peripheral cables from the system. Place the system unit on a flat, stable surface.

27 Chapter 3 Removing the Side Panel 1. Remove the two screws located on the rear edge of the side panel. 2. 3. Slide the side panel toward the back of the chassis until the tabs on the cover disengage with the slots on the chassis.

Lift the side panel away from the server and put it aside for reinstallation later. Chapter 3 28 Removing the Heat Sink Fan Assembly WARNING:The heat sink becomes very hot when the system is on. NEVER touch the heat sink with any metal or with your hands. 1. disconnect the fan cable from the mainboard. 2. Use a long-nosed screwdriver to loosen the four screws on the heat sink, in the order as shown below. 3. Lift the heat sink fan assembly away from the mainboard. 29 Chapter 3 Removing the Processor IMPORTANT:Before removing a processor from the mainboard, make sure to create a backup file of all important data.

WARNING:The processor becomes very hot when the system is on. Allow it to cool off first before handling. 1. Release the load lever (1). 2. 3. Pull the load lever to the fully open, upright position (2) and lift the load plate (3). Pull out the processor from the socket. IMPORTANT: If you are going to install a new processor, note the arrow on the corner to make sure the processor is properly oriented over the socket Chapter 3 30 Removing the VGA Card 1.



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Release the Slot cover lock.

2. 3. Remove the screw from chassis. Disconnect the power cables from the VGA card. 4.

One finger Press the clip and the same time Gently pull the card to remove it from the mainboard. 31 Chapter 3 Removing the TV Card 1. Gently pull the TV card to remove it from the mainboard. Removing the Mode Card 1. Gently pull the Mode card to remove it from the mainboard.

Chapter 3 32 Removing the Hard Disk Drive 1. Disconnect the data and power cables from the rear of the optical drive and the mainboard. 2. Remove the HDD bracket a. Remove the screw that secures the HDD bracket to the ODD bracket. b. Lift the bracket up and turn it over. 33 Chapter 3 3. Remove the HDD module a. Remove the eight screws secure the HDD module to the HDD bracket.

b. Slide the HDD out of the bracket. Chapter 3 34 Removing the Front Bezel 1. 2. Remove the side panel. Refer to the previous section for instructions.

Disconnect the LED cable. 3. Release the front bezel from the chassis interior. 4.

Pull the bezel away from the chassis. 35 Chapter 3 Removing the Optical Drive 1. Disconnect the data and power cables from the rear of the optical drive. 2.

Remove two screw from the optical drive.

3. Pull the drive out of the drive. Chapter 3 36 Remove Cables 1. 2. Remove power switch and LED cables from slot of M/B Remove HDD Data and ODD Data cables from slot of M/B.

3. 4. Remove USB1/2/3 cable from M/B. Remove Card reader cable and Audio cable from M/B 37 Chapter 3 Remove System FAN 1. Remove System FAN cable from M/B. 2. Release four screws according to the following picture. 3. Take off the system fan from chassis. Chapter 3 38 Removing the Power Supply 1.

Disconnect the 4-pin and 24-pin power supply cables from the mainboard. 2. Remove the four screw that secures the power supply to the chassis. 3. Lift the power supply module out of the chassis. 39 Chapter 3 Removing the Memory Modules IMPORTANT: Before removing any DIMM from the memory board, make sure to create a backup file of all important data. 1. 2. Press the holding clips on both sides of the DIMM slot outward to release the DIMM. Gently pull the DIMM upward to pull it away from the M/B.

Chapter 3 40 Removing the Mainboard 1. Remove the eight screws that secure the mainboard to the chassis. 2. Lift the board from the chassis. 41 Chapter 3 Chapter 4 System Troubleshooting Please refer to generic troubleshooting guide for troubleshooting information relating to following topics: . . . Power-On Self-Test (POST) POST Check Points POST Error Messages List Error Symptoms List Chapter 4 42 Power-On Self-Test (POST) Each time you turn on the system, the Power-on Self Test (POST) is initiated.

Several items are tested during POST, but is for the most part transparent to the user. The Power-On Self Test (POST) is a BIOS procedure that boots the system, initializes and diagnoses the system components, and controls the operation of the power-on password option. If POST discovers errors in system operations at power-on, it displays error messages on screen, generates a check point code at port 80h or even halts the system if the error is fatal. NOTE: When Post executes a task, it uses a series of preset numbers called check points to belatched atport 80h, indicating the stages it is currently running. This latch can be read and shown on a debug board.

The following table describes the BIOS common tasks carried out by POST. Each task is denoted by an unique check point number. For other unique check point numbers that are not listed in the table, refer to the corresponding product service guide. Post Checkpoints List: The list may vary accordingly depending on your BIOS Bootblock Initialization Code Checkpoints Checkpoint Before D1 D1 D0 D2 D3 Description Early chipset initialization is done. Early super I/O initialization is done including RTC and keyboard controller. NMI is disabled. Perform keyboard controller BAT test. Check if waking up from power management suspend state. Save power-on CPUID value in scratch CMOS. Go to flat mode with 4GB limit and GA20 enabled.

Verify the bootblock checksum. Disable CACHE before memory detection. Execute full memory sizing module. Verify that flat mode is enabled. If memory sizing module not executed, start memory refresh and do memory sizing in Bootblock code. Do additional chipset initialization. Re-enable CACHE. Verify that flat mode is enabled. Test base 512KB memory. Adjust policies and cache first 8MB.

Set stack. Bootblock code is copied from ROM to lower system memory and control is given to it. BIOS now executes out of RAM. Both key sequence and OEM specific method is checked to determine if BIOS recovery is forced. If BIOS recovery is necessary, control flows to checkpoint E0.

See Bootblock Recovery Code Checkpoints section of document for more information. Restore CPUID value back into register. The Bootblock-Runtime interface module is moved to system memory and control is given to it. Determine whether to execute serial flash. The Runtime module is uncompressed into memory.

CPUID information is stored in memory. Store the Uncompressed pointer for future use in PMM. Copying Main BIOS into memory. Leaves all RAM below 1MB Read-Write including E000 and F000 shadow areas but closing SMRAM. Restore CPUID value back into register. Give control to BIOS POST (ExecutePOSTKernel). See POST Code Checkpoints section of document for more information. OEM memory detection/configuration error. This range is reserved for chipset vendors & system manufacturers. The error associated with this value may be different from one platform to the next.

D4 D5 D6 D7 D8 D9 DA E1-E8 EC-EE 43 Chapter 4 Bootblock Recovery Code Checkpoints Checkpoint E0 E9 EA EB EF F0 F1 F2 F3 F5 FA FB F4 FC FD FF Description Initialize the floppy controller in the super I/O. Some interrupt vectors are initialized. DMA controller is initialized. 8259 interrupt controller is initialized. L1 cache is enabled. Set up floppy controller and data. Attempt to read from floppy. Enable ATAPI hardware. Attempt to read from ARMD and ATAPI CDROM. Disable ATAPI hardware.

Jump back to checkpoint E9. Read error occurred on media. Jump back to checkpoint EB. Search for pre-defined recovery file name in root directory.

Recovery file not found.

Start reading FAT table and analyze FAT to find the clusters occupied by the recovery file. Start reading the recovery file cluster by cluster. Disable L1 cache. Check the validity of the recovery file configuration to the current configuration of the flash part. Make flash write enabled through chipset and OEM specific method.

Detect proper flash part. Verify that the found flash part size equals the recovery file size. The recovery file size does not equal the found flash part size. Erase the flash part Program the flash part. The flash has been updated successfully.



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Make flash write disabled. Disable ATAPI hardware. Restore CPUID value back into register. Give control to F000 ROM at F000:FFF0h. POST Code Checkpoints Checkpoint 03 Description Disable NMI, Parity, video for EGA, and DMA controllers.

Initialize BIOS, POST, Runtime data area. Also initialize BIOS modules on POST entry and GPNV area. Initialized CMOS as mentioned in the Kernel Variable "wCMOSFlags." Check CMOS diagnostic byte to determine if battery power is OK and CMOS checksum is OK. Verify CMOS checksum manually by reading storage area. If the CMOS checksum is bad, update CMOS with power-on default values and clear passwords. Initialize status register A. Initializes data variables that are based on CMOS setup questions. Initializes both the 8259 compatible PICs in the system Initializes the interrupt controlling hardware (generally PIC) and interrupt vector table. Do R/W test to CH-2 count reg.

Initialize CH-0 as system timer. Install the POSTINT1Ch handler. Enable IRQ-0 in PIC for system timer interrupt. Traps INT1Ch vector to "POSTINT1ChHandlerBlock." Fixes CPU POST interface calling pointer.

Initializes the CPU. The BAT test is being done on KBC. Program the keyboard controller command byte is being done after Auto detection of KB/MS using AMI KB-5. 44 04 05 06 07 08 Chapter 4 Checkpoint C0 C1 C2 C5 C6 C7 0A 0B 0C 0E Description Early CPU Init Start -- Disable Cache ?C Init Local APIC Set up boot strap processor Information Set up boot strap processor for POST Enumerate and set up application processors Re-enable cache for boot strap processor Early CPU Init Exit Initializes the 8042 compatible Key Board Controller Detects the presence of PS/2 mouse. Detects the presence of Keyboard in KBC port.

Testing and initialization of different Input Devices. Also, update the Kernel Variables. Traps the INT09h vector, so that the POST INT09h handler gets control for IRQ1. Uncompress all available language, BIOS logo, and Silent logo modules. 13 24 30 2A Early POST initialization of chipset registers. Uncompress and initialize any platform specific BIOS modules. GPNV is initialized at this checkpoint. Initialize System Management Interrupt. Initializes different devices through DIM. See DIM Code Checkpoints section of document for more information.

Initializes different devices. Detects and initializes the video adapter installed in the system that have optional ROMs. Initializes all the output devices. Allocate memory for ADM module and uncompress it. Give control to ADM module for initialization. Initialize language and font modules for ADM. Activate ADM module. Initializes the silent boot module. Set the window for displaying text information. Displaying sign-on message, CPU information, setup key message, and any OEM specific information.

Initializes different devices through DIM. See DIM Code Checkpoints section of document for more information. USB controllers are initialized at this point. Initializes DMAC-1 & DMAC-2. Initialize RTC date/time.

Test for total memory installed in the system. Also, Check for DEL or ESC keys to limit memory test. Display total memory in the system. Mid POST initialization of chipset registers. Detect different devices (Parallel ports, serial ports, and coprocessor in CPU, ?? etc.

) successfully installed in the system and update the BDA, EBDA??etc. Programming the memory hole or any kind of implementation that needs an adjustment in system RAM size if needed. 2C 2E 31 33 37 38 39 3A 3B 3C 40 50 45 Chapter 4 Checkpoint 52 60 75 78 7A 7C 84 85 87 8C 8D 8E 90 A0 A1 A2 Description Updates CMOS memory size from memory found in memory test. Allocates memory for Extended BIOS Data Area from base memory. Initializes NUM-LOCK status and programs the KBD typematic rate. Initialize Int-13 and prepare for IPL detection. Initializes IPL devices controlled by BIOS and option ROMs. Initializes remaining option ROMs. Generate and write contents of ESCD in NVRam. Log errors encountered during POST.

Display errors to the user and gets the user response for error. Execute BIOS setup if needed / requested. Check boot password if installed. Late POST initialization of chipset registers. Build ACPI tables (if ACPI is supported) Program the peripheral parameters. Enable/Disable NMI as selected Late POST initialization of system management interrupt. Check boot password if installed. Clean-up work needed before booting to OS. Takes care of runtime image preparation for different BIOS modules. Fill the free area in F000h segment with 0FFh.

Initializes the Microsoft IRQ Routing Table. Prepares the runtime language module. Disables the system configuration display if needed. Initialize runtime language module. Display boot option popup menu.

Displays the system configuration screen if enabled. Initialize the CPU??s before boot, which includes the programming of the MTRR??s. Prepare CPU for OS boot including final MTRR values. Wait for user input at config display if needed. Uninstall POST INT1Ch vector and INT09h vector.

Deinitializes the ADM module. Prepare BBS for Int 19 boot. End of POST initialization of chipset registers. Save system context for ACPI. Passes control to OS Loader (typically INT19h). OEM POST Error. This range is reserved for chipset vendors & system manufacturers. The error associated with this value may be different from one platform to the next. A4 A7 A8 A9 AA AB AC B1 00 61-70 Chapter 4 46 DIM Code Checkpoints Checkpoint 2A Description Initialize different buses and perform the following functions: Reset, Detect, and Disable (function 0); Static Device Initialization (function 1); Boot Output Device Initialization (function 2). Function 0 disables all device nodes, PCI devices, and PnP ISA cards.

It also assigns PCI bus numbers. Function 1 initializes all static devices that include manual configured onboard peripherals, memory and I/O decode windows in PCI-PCI bridges, and noncompliant PCI devices. Static resources are also reserved. Function 2 searches for and initializes any PnP, PCI, or AGP video devices. Initialize different buses and perform the following functions: Boot Input Device Initialization (function 3); IPL Device Initialization (function 4); General Device Initialization (function 5). Function 3 searches for and configures PCI input devices and detects if system has standard keyboard controller. Function 4 searches for and configures all PnP and PCI boot devices. Function 5 configures all onboard peripherals that are set to an automatic configuration and configures all remaining PnP and PCI devices. 38 ACPI Runtime Checkpoints Checkpoint AC AA 01, 02, 03, 04, 05 10, 20, 30, 40, 50 Description First ASL check point. Indicates the system is running in ACPI mode.

System is running in APIC mode Entering sleep state S1, S2, S3, S4, or S5. Waking from sleep state S1, S2, S3, S4, or S5 47 Chapter 4 POST Error Messages List If you cannot run the diagnostics program tests but did receive a POST error message, use "POST Error Messages List" to diagnose system problems.



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This message usually indicates that the CMOS battery needs to be replaced. It could also appear when the user intentionally discharges the CMOS battery. Chapter 4 52 Message Displayed CMOS Settings Wrong CMOS Checksum Bad Description CMOS settings are invalid. This error can be resolved by using AMIBIOS Setup. CMOS contents failed the Checksum check. Indicates that the CMOS data has been changed by a program other than the BIOS or that the CMOS is not retaining its data due to malfunction. This error can typically be resolved by using AMIBIOS Setup.

Miscellaneous Message Displayed KBC BAT Test failed Keyboard Error PS2 Keyboard not found PS2 Mouse not found Keyboard/ Interface Error Unlock Keyboard System Halted <INS> Pressed Password check failed The password entered does not match the password set in the setup. This condition may occur for both Supervisor and User password verification. Unknown BIOS error. Error code = 004Ah Unknown BIOS error. Error code = 004Bh Floppy Controller Failure This message is displayed when ADM module is not present in the AMIBIOS8 ROM. Description Keyboard controller BAT test failed. This may indicate a problem with keyboard controller initialization. Keyboard is not present or the hardware is not responding when the keyboard controller is initialized. PS2 Keyboard support is enabled in the BIOS setup but the device is not detected. PS2 Mouse support is enabled in the BIOS setup but the device is not detected.

Keyboard Controller failure. This may indicate a problem with system hardware. PS2 keyboard is locked. User needs to unlock the keyboard to continue the BIOS POST. The system has been halted. A reset or power cycle is required to reboot the machine. This message appears after a fatal error has been detected. Indicates that <INS> key is pressed during the BIOS POST. The POST will load and use default CMOS settings. This message is displayed when language module is not present in the AMIBIOS8 ROM.

Error in initializing legacy Floppy Controller. 53 Chapter 4 USB eModule Error Messages Message Displayed Warning! Unsupported USB device found and disabled! Warning! Port 60h/64h emulation is not supported by this USB Host Controller! Warning! EHCI controller disabled. It requires 64bit data support in the BIOS. Description This message is displayed when a non-bootable USB device is enumerated and disabled by the BIOS. This message is displayed to indicate that port 60h/64h emulation mode cannot be enabled for this USB host controller.

This condition occurs if USB KBC emulation option is set for non-SMI mode. This message is displayed to indicate that EHCI controller is disabled because of incorrect data structure. This condition occur if the USB host controller needs 64-bit data structure while the USB is ported with 32-bit data structure.

SMBIOS eModule Error Messages Message Displayed Not enough space in Runtime area!!. SMBIOS data will not be available.

Description This message is displayed when the size of the SMBIOS data exceeds the available SMBIOS runtime storage size CPU eModule Error Messages Message Displayed Warning! This system board does not support the power requirements of the installed processor. The processor will be run at a reduced frequency, which will impact system performance. area!!. SMBIOS data will not be available. Description This message is displayed when the power requirements of the board do not match the power requirement of the CPU. MPS Table (Multi-processor) eModule Error Messages Message Displayed Insufficient Runtime space for MPS data! System may operate in PIC or Non-MPS mode. Description This message is displayed when there is not enough space in the 0F000h runtime area for creating MPS table. Chapter 4 54 Error Symptoms List NOTE: To diagnose a problem, first find the error symptom in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/ FRU listed in right column is the most likely cause.

Error Symptom Processor / Processor Fan NOTE: Normally, the processor fan should be operative, and the processor clock setting should be exactly set to match its speed requirement before diagnosing any processor problems. Processor fan does not run but power supply fan runs. 1. Ensure the system is not in power saving mode. See "Power Management" in chapter 2. 2. With the system power on, measure the voltage of processor fan connector. Its reading should be +12Vdc. Its reading should be +12Vdc. If the reading shows normal, but the fan still does not work, then replace a good fan.

3. Main board. Action/FRU Processor test failed. 1. Processor.

2. Main board. Main board and Memory NOTE: Ensure the memory modules are installed properly and the contact leads are clean before diagnosing any system problems. Memory test failed. 1.

See "Memory" 2. Main board 1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. Main board. 1. Enter BIOS Setup and load default settings. In Windows Systems, check settings in Power Management Property of Control Panel.

2. Reload software from Recovery CD. 1. Diskette/IDE drive connection/cables 2. Diskette/IDE disk drives 3. See "Undetermined Problems". 4. Main board Diskette Drive NOTE: Ensure the diskette drive is auto-setting in BIOS Setup and its read/write head is clean before diagnosing any diskette drive problems. (If only one drive is installed, please make sure the drive is connected to master connector or the drive is set to master.) Media and drive are mismatched.

1. Ensure the diskette drive is configured correctly in the Disk Drives of BIOS Setup. 2. Ensure the diskette drive is correctly formatted. 3.

Diskette drive connection/cable 4. Diskette drive 5. Main board Incorrect memory size shown or repeated during POST. System works but fails to enter power saving mode when the Power Management Mode is set to Enabled. Blinking cursor only; system does not work.

55 Chapter 4 Error Symptom Diskette drive does not work. Action/FRU 1. Ensure the diskette drive is not set to None in the Disk Drives of BIOS Setup.

2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. Main board 1. Diskette. 2.

Diskette drive cable. 3. Diskette drive. 4. Main board 1. Diskette 2. Diskette drive connection/cable 3. Diskette drive 4. Main board 1. Diskette 2.

Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. Main board 1. Diskette 2.

Diskette drive 3. Diskette drive cable 4. Main board Hard Disk Drive Diskette drive read/write error. Diskette drive LED comes on for more than 2 minutes when reading data. Diskette drive LED fails to light, and the drive is unable to access for more than 2 minutes.

Diskette drive test failed. NOTE: Ensure hard disk drive is configured correctly in BIOS Setup, cable/jumper are set correctly before diagnosing any hard disk drive problems. (If only one drive is installed, please make sure the drive is connected to master connector or the drive is set to master.



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) Hard disk drive test failed. 1.Enter BIOS Setup and Load default settings. 2.Hard disk drive cable. 3.Hard disk drive.

4. Main board. 1.Enter BIOS Setup and Load default settings. 2.Hard disk drive cable. 3.Hard disk drive. 4.Main board 1.

Enter BIOS Setup and Load default settings. 2.Hard disk drive. 1. With the system power on, measure the voltage of hard disk LED connector.

2.Hard drive LED cable. Hard disk drive cannot format completely. Hard disk drive has write error. Hard disk drive LED fails to light, but system operates normally.

CD/DVD-ROM Drive NOTE: Ensure CD/DVD-ROM drive is configured correctly in BIOS Setup, cable/jumper are set correctly and its laser beam is clean before diagnosing any CD/DVD-ROM drive problems. Chapter 4 56 Error Symptom CD/DVD-ROM drive LED doesn't come on but works normally.

CD/DVD-ROM drive LED flashes for more than 30 seconds before LED shutting off. Software asks to reinstall disc. Software displays a reading CD/DVD error. CD/DVD-ROM drive cannot load or eject when the system is turned on and its eject button is pressed and held. Action/FRU 1. CD/DVD-ROM drive

1. CD/DVD-ROM may have dirt or foreign material on it. Check with a known good disc.

2. CD/DVD-ROM is not inserted properly. 3. CD/DVD-ROM is damaged. 1. Disconnect all cables from CD/DVD-ROM drive except power cable, then press eject button to try to unload the disk. 2. CD/DVD-ROM drive power. 3. CD/DVD-ROM drive 1.

CD may have dirt or foreign material on it. Check with a known good disc. 2. Ensure the CD/DVD-ROM driver is installed properly. 3.

CD/DVD-ROM drive. 1. Ensure the headphone jack of the CD/DVD-ROM has an output. 2. Turn up the sound volume.

3. Speaker power/connection/cable. 4. CD/DVD-ROM drive. CD/DVD-ROM drive does not read and there are no messages are displayed. CD/DVD-ROM drive can play audio CD but no sound output. Real-time clock Real-time clock is inaccurate. 1. Ensure the information in the Standard CMOS Feature of BIOS Setup is set correctly. 2.

RTC battery. 3. Main board. Audio Audio software program invokes but no sound comes from speakers. 1. Speaker power/connection/cable. Modem Modem ring cannot wake up system from suspend mode. 1. For the External Modem, make sure Power on By Ring in BIOS Setup or Power Management is set to Enabled. For the PCI modem, make sure Wake up by PCI card is set to Enabled.

2. If PCI modem card is used, reinsert the modem card to PCI slot firmly or replace the modem card. 3. In Win 98, ensure the telephone application is configured correctly for your modem and set to receive messages and/or fax. 1.

Ensure the modem card is installed properly. 1. Ensure the modem voice-in cable from modem adapter card to main board Data/fax modem software program invokes but cannot receive/send data/fax Fax/voice modem software program invokes but has no sound output. (Data files are received normally; voice from modem cannot be produced, but system sound feature works normally.) Video and Monitor 57 Chapter 4 Error Symptom Video memory test failed.

Video adapter failed. Action/FRU 1. Remove all non-factory-installed cards. 2. Load default settings (if screen is readable). 3. Main board 1. Monitor signal connection/cable. 2. Monitor 3.

Video adapter card 4. Main board Display problem: -Incorrect colors No high intensity Missing, broken, or incorrect characters Blank monitor (dark) Blank monitor (bright) Distorted image Unreadable monitor Other monitor problems Display changing colors. 1. Monitor signal connection/cable 2. Monitor 3. Main board 1. "Monitor" 2. Load default settings (if screen is readable). 3. Main board Display problem not listed above (including blank or illegible monitor).

Parallel/Serial Ports Execute "Load BIOS Default Settings" in BIOS Setup to confirm ports presence before diagnosing any parallel/serial ports problems.

Serial or parallel port loop-back test failed. 1. Make sure that the LPT# or COM# you test is the same as the setting in BIOS Setup. 2.

Loop-back. 3. Main board 1. Ensure the printer driver is properly installed. Refer to the printer service manual.

2. Printer. 3. Printer cable. 4. Main board. 1. Refer to the service manual for the printer. Keyboard Some or all keys on keyboard do not work. 1.

Keyboard Power Supply Pressing power switch does not turn off system. (Only unplugging the power cord from electrical outlet can turn off the system.)

Pressing power switch does not turn on the system. 1. Ensure the Soft-off by PWR-BTTN. in BIOS Setup of Power Management is not set to Instant-off.

2. Power switch cable assembly 1. Ensure the power override switch (situated at the back of the machine, just above the connector for the power cable) is not set to OFF. 2.

Power switch cable assembly. Printing failed. Printer problems. Chapter 4 58 Error Symptom Executing software shutdown from Windows98 Start menu does not turn off the system. (Only pressing power switch can turn off the system).

No system power, or power supply fan is not running. Action/FRU 1. Load default settings. 2. Reload software from Recovery CD.

1. Power Supply 2. Main board Other Problems Any other problems. 1. Undetermined Problems 59 Chapter 4 Undetermined Problems If an error message is present, go to "POST Error Messages List" on page 85. If you did not receive any messages, if the symptom is listed in "or "Error Symptoms List" on page 87. If you still cannot solve the problem, continue with this check: 1. 2. 3. 4.

5. 6. 7. 8. 9. Check the power supply voltage. If the voltage are correct continue with the following steps: Power off the system unit. Perform the following checks, one by one, until you have isolated the problem FRU. Load default settings in setup. Check all main board jumper positions and switch settings.

Check all adapter card jumper positions. Check all device jumper positions. Check all cables and connectors for proper installation. If the jumpers, switches and voltage settings are correct, remove or disconnect the following, one at a time: 10. Non-Acer devices . . . . . External devices Any adapter card (modem card, LAN card or video card, if installed) CD/DVD-ROM drive Diskette drive Hard disk drive DIMM Processor Main board 11.

Power on the system unit. 12. Repeat steps 2 through 5 until you find the failing device or adapter. Chapter 4 60 Chapter 5 Jumper and Connector Information M/B Placement Chapter 5 61 No 1 Label Description No 13 Label Description CPU Socket CPU Socket, 0.914mm, 15u", Black, SMD-1, 156 DIMM CONN, DIMM, DDRIII, 1.

5V, VT, Blu, 15u, G, DIP-240 CPU fan power header CPU Power connector Rear Fan Header PCIE\_x16 socket PCIE\_1x socket PCIE\_4x socket Audio Aux input connector Front panel audio header Internal speaker header SPDIF header F\_1394\_HEADE Front 1394 header R F\_USB Front panel USB header 2 14 3 4 5 6 7 8 9 10 11 12 CPU\_FAN PWR2 REAR\_FAN PCIE\_16x PCIE\_1x PCIE\_4x AUX\_IN F\_AUDIO SPEAKER SPDIF1 15 16 17 18 19 20 21 22 23

SATA CLR\_CMOS SATA data transfe connector Clear CMOS jumper FRONT\_PANEL Front panel header 1 DEBUG\_HEAD ER INTR FRONT\_FAN AUXILLIARY\_F AN1 BIOS\_FLASH PWRI Debug header Chassis intrusion alarm header Front fan header Auxilliary fan header Bios flash header M/B main power connector 62 Chapter 5 Jumper Setting The section explains how to set jumper for correct configuration of the mainboard.

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Setting Jumper Use the motherboard jumpers to set system configuration options. Jumpers with more Than one pin are numbered. When setting the jumpers, ensure that the jumper caps are Placed on the correct pins. System Board Jumper Setting · CLR\_CMOS Jumper Symbol Description 1-2 close 1-2 open Function Active No Active (Default) System Board Header Function Clear CMOS Normal (Default) · INTR Jumper Symbol Description 1-2 close 1-2 open Function Active No Active (Default) 1-2 close 2-3 close Setting · Front Panel FRONT PANEL 1 3 5 7 9 11 13 Orange0 Green0 Orange1 Green1 Blue0 Blue1 Black Orange2 Green2 Orange3 Green3 Header\_2X7\_K10 12 14 Red0 Red1 2 4 6 8 Chapter 5 63 · Front USB 64 Chapter 5 · Front Audio (HDA) · Front 1394 Chapter 5 65 · SATA Connector · 4 Pin FAN HEADER · 3 Pin FAN HEADER 66 Chapter 5 · CLEAR CMOS HEADER · CLR\_SRTC · INTR · SPDIF Header Chapter 5 67 · AUX-IN · 2 Pin HEADER 68 Chapter 5 Chapter 6 FRU (Field Replaceable Unit) List This chapter offers the FRU (Field Replaceable Unit) list in global configuration of the Aspire M5811 desktop computer. Refer to this chapter whenever ordering the parts to repair or for RMA (Return Merchandise Authorization). NOTES: · When ordering FRU parts, check the most up-to-date information available on your regional web or channel. For whatever reasons a part number is changed, it will NOT be noted on the printed Service Guide. For Acer authorized service providers, your Acer office may have a different part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for service.

To scrap or to return the defective parts, follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it. This document will be updated as more information about the FRU list becomes available. · chapter 6 69 Aspire M5811 Exploded Diagram NOTE: This section will be updated when more information becomes available. 70 Chapter 6 ITEM 1 NAME PANEL\_TOP-X2 TYPE PART Q'TY 1 ITEM 21 NAME DOOR\_ODD\_ARM\_LOX1 DOOR\_ODD\_UP\_M5-X2 BTN\_ODD\_LO-X1 BTN\_ODD\_DCR\_UP-X1 SPRING\_ODD\_BTN-2 LOGO\_ASPIRE\_M5-X1 LOGO-AM530 TYPE PART Q'TY 1 2 3 4 5 6 7 COVER\_TOP-X1 MYLAR-COVER-TOP MYLAR-DOOR-TOP DOOR\_TOP-X1 LED\_3 BTN\_PWR\_DCR-X1 PART 1 22 23 24 PART PART PART PART PART PART 1 2 2 4 1 1 PART PART ELECTRONIC PART PART 1 1 1 25 26 27 8 9 BTN\_PWR\_V2-X1 MCR HOLDER-X4 1 1 28 29 PANEL\_FRT\_LO-X2 DOOR\_ODD\_LOWER\_M 5-X2 SPRING-ODD-DOOR ACER-M330-MAINCHASSIS HDD-BKT MB-SUPPORT SIDE\_DOOR\_ODD\_CAGE SUB\_CHASSIS PART PART 1 1 10 11 BKT\_PWR-BTN-X1 MCR-KYE-M5-D224 PART PART 1 1 30 31 PART PART 2 1 12 13 14 15 16 CONTACT\_SWITCH\_IO-PANEL\_TOP-X2 TOP-BRKT\_USB\_FIO-AM520 ACER-M330-MAINCHASSIS LED-A1 HDD\_LENS-X1 PANEL\_MAIN\_M5-X1 DOOR\_ODD\_ARM\_UPX1 PART PART PART PART PART 1 1 1 1 1 32 33 34 35 36 PART PART PART PART PART 1 1 1 1 1 17 18 19 20 PART PART PART PART 2 1 1 1 37 38 39 CHASSIS\_SUPPORT PCI-DOOR REAR\_CHASSIS PART PART PART 2 1 1 Chapter 6 71 Aspire M5811 FRU List Category MAINBOARD MB Kit aBulldogII Intel H57 Intel 82578DC PCI-E Gbt Lan ATX W/ 1394 V1.0 LF w/i DolbyIII MB.SDG09.002 Description Part Number CPU Lynnfield LGA1156 2.93GHz 4cores/8threads,95W Lynnfield LGA1156 2.8GHz 4cores/8threads,95W Lynnfield LGA1156 2.66GHz 4cores/4threads,95W CPU Intel Core i5 670 LGA 3. 46G 4M 1333 1156 C-2 73W, CPU Intel Core i5 661 LGA 3.33G 4M 1333 1156 C-2 87W, CPU Intel Core i5 660 LGA 3.33G 4M 1333 1156 C-2 73W CPU Intel Core i5 650 LGA 3.2G 4M 1333 1156 C-2 73W, CPU Intel Core i3 540 LGA 3.06G 4M 1333 1156 73W CPU Intel Core i3 530 LGA 2. 93G 4M 1333 1156 73W Pentium Dual Core G6950 (2.8G 2M 1066FSB) CPU Cooler Cooler Intel LGA 1156 FXC PKP775G01U12 w/i duct CM iCooler LGA1156 w/i pure al 93x93x40h w/i 9025 fan w/i 75mm duct HI.10800,049 HI.10800. 058 KC.87001.CI7 KC.86001.CI7 KC.75001.CI5 KC.67001.CI5 KC.66101.

CI5 KC.66001.CI5 KC.65001.CI5 KC.54001.CI3 KC.53001.CI3 KC.69501. DEG Memory M378B2873EH1-CH9 LF 128\*8 0.055um M378B5673EH1-CH9 LF 128\*8 0.055um NT1GC64B88A0NF-CG LF 128\*8 0.07um NT2GC64B88A0NF-CG LF 128\*8 0.07um GU502203EP0201 LF 128\*8 0. 065um GU512303EP0202 LF 128\*8 0.065um HMT112U6BFR8C-H9 LF 128\*8 0.055um HMT125U6BFR8C-H9 LF 128\*8 0.055um VGA GEFORCE GTS250 1GB GDDR3 QIMUNDA (256BITS) DUAL DVI ATX BRACKET VG.PCGT2. 501 KN.1GB0B.030 KN.2GB0B.014 KN.1GB03.032 KN.2GB03.016 KN.1GB0H.

015 KN.2GB0H.009 KN.1GB0G.024 KN.2GB0G.015 72 Chapter 6 Category Description GEFORCE GTS240 2GB GDDR3 SAMSUNG (256BITS) VGA DVI HDMI ATX BRACKET GEFORCE GT230 1.5GB GDDR3 (192BITS) SAMSUNG VGA DVI HDMI ATX BRACKET GEFORCE GT220 1GB DDR2 (128BITS) SAMSUNG DVI HDMI VGA ATX BRACKET GEFORCE G210 512MB DDR2 (64BITS) SAMSUNG DVI HDMI VGA ATX BRACKET HD5850 1GB (256BITS) GDDR5 SAMSUNG DVI DVI HDMI DP ATX BRACKET ROHS HD4850 1GB DDR 3 (256bits) SAMSUNG 6 LAYER DUAL DVI W/ ATX BKT ROHS HD4650 1GB DDR 2 (128BITS) SAMSUNG DVI HDMI VGA W/ ATX BKT ROHS HD4350 512MB DDR 2 (64BITS) SAMSUNG DVI HDMI VGA W/ ATX BKT ROHS Part Number VG.PCGT2.401 VG. PCGT2.301 VG.PCGT2.201 VG.PCG02. 101 VG.A5850.001 VG.APC48.511 VG. APC46.502 VG.APC43.501 HDD 640GB 1TB 500GB 750GB 1TB 640GB 750GB 1TB 2TB ODD DH-16D5S Win7 DH-20N(H/F) Win7 GH-41F(H/F) Win7 non-Labelflash GH-41F(H/F) Win7 Labelflash DH-16AASH (H/F) Win7 non-Labelflash DH-16AASH (H/F) Win7 F/W: SA14 Labelflash DH-4O3S Win7 CH-10F Win7 non-Labelflash DH-6E2S Win7 non-Labelflash BH-30F (H/F) Win7 non-Labelflash Card Reader KV.0160F.002 KV.0160D.016 KU.0160D.049 KU.

0160D.048 KU.0160F.009 KU.0160F.008 KV.0040F.002 KO.0060D.004 KO. 0060F.002 KU.0060D.004 KH.64007. 001 KH.01K07.002 KH.50001.012 KH. 75001.008 KH.01K01.007 KH.64008.003 KH.75008.005 KH.01K08.005 KH.

02K08.001 Chapter 6 73 Category Description NS 16-in-1 CR M5 w/USB2.0, Realtek RTS-5181,w/micro SD, M2 Part Number CR.10400.075 KYE 16-in-1 CR M5 w/USB2.0, Realtek RTS-5181,w/micro SD, M2 CR.10400.073 Modem HPE56L6, Modem PCI-Ex1 card, LSI Universal Modem (PCI-E) 56K V.92 - Concorde (C40) VD56UL, Modem USB dongle 56K modem W/O brand logo D-1156E#A10A, Modem PCI-Ex1 card, LSI Universal Modem (PCI-E) 56K V.92 - Concorde (C40) TV PE988-A TV Tuner Card PCIe Hybrid ATSC with S/W Encoder TU. 10500.038 FX.10100.020 FX.10100. 023 FX.10100.002 PE988-D TV Tuner Card PCIe Hybrid DVB-T with S/W Encoder TU.10500.040 Wireless LAN WU61RL WLAN USB dongle 802. 11 b/g, Ralink RT2571WF, W/O brand logo WU71RL WLAN USB dongle 802.11b/g/n 1T x 1R, Ralink RT3070F WN7600R, WLAN PCI-Ex1 card 802.11 b/g/n 1T x 2R, Ralink 1T x 2R, RT2790+RT2720 Power Supply FR 500W EUP 82+ (ESS.0) PY.50008.004 NI.10200.025 NI.10200.023 NI.

10200.008 Mouse Lite-on Optical mouse USB SM-9625 with new color AC-MT-018 MS.



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