

DSA-132 Series

31.5" Full HD Digital Signage with Intel Core 2 Duo Processor

User's Manual



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Safety Approvals

- CE Marking
- FCC Class A

♦ FCC Compliance

This equipment has been tested in compliance with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are meant to provide reasonable protection against harmful interference in a residential installation. If not installed and used in accordance with proper instructions, this equipment might generate or radiate radio frequency energy and cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- 1. Increase the separation between the equipment and receiver.
- 2. Connect the equipment to another outlet of a circuit that doesn't connect with the receiver.
- 3. Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with the emission limits.

Safety Precautions

Before getting started, please read the following important safety precautions.

- 1. The **DSA-132 series** does not come equipped with an operating system. An operating system must be loaded first before installing any software into the computer.
- 2. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any staticshielded devices. Most electronic components are sensitive to static electrical charge.
- 3. Disconnect the power cord from the **DSA-132 series** before any installation. Be sure both the system and external devices are turned OFF. A sudden surge of power could ruin sensitive components that the **DSA-132 series** must be properly grounded.
- 4. Make sure it is the correct voltage of the power source before connecting the equipment to the power outlet.
- 5. The brightness of the flat panel display will be getting weaker as a result of frequent usage. However, the operating period varies depending on the application environment.
- 6. The flat panel display is not susceptible to shock or vibration. When assembling the **DSA-132 series**, make sure it is securely installed.
- Do not leave this equipment in an uncontrolled environment where the storage temperature is below 0°C or above 40°C. It may damage the equipment.
- 8. External equipment intended for connection to signal input/out or other connectors shall comply with relevant UL/IEC standard.
- 9. Do not open the back cover of the system. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:
 - Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.

 When handling boards and components, wear a wristgrounding strap, available from most electronic component stores.

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CHAPTER 1 INTRODUCTION

This chapter contains general information and detailed specifications of the **DSA-132**. Chapter 1 includes the following sections:

- General Description
- Specification
- Dimensions
- I/O Outlets
- Package List

1.1 General Description

The DSA-132 series is a Digital Signage computer which is equipped with 31.5-inch 450nits high brightness and Full HD (1920x1080p) TFT-LCD. The system supports superior Intel® Core 2 Duo processor. Powered by Intel[®] 945GC+ICH7 core logic chipset, this panel computer has the best processor performance. The DSA-132 can be deployed in a variety of venues from shopping malls to corporate environments, banks, education, hospitality, restaurants and more. There is a model with touch solution, DSA-132R is built in infrared touch screen. DSA-132 has a high reliability and easy maintain engine box, it is more user-friendly Digital Signage computer to ensure customer's project success and suited for digital signage applications.

> Full HD TFT LCD

The DSA-132 is a full HD Digital Signage computer. The resolution is 1920x1080 which is ideal to displaying complex graphics and high definition images, and it is suited by each kind of digital signage application.

NOTE Due to protecting LCD, we suggest to use DSA-132 in the upright position.

> Spill and dust resistant

The DSA-132 has designed front bezel by IP65 water-proof, also the entire system is protected. Therefore the system is protected from water drip damages.

> Easy maintenance

The DSA-132 series has pluggable engine box design; you can change HDD, DRAM and CPU configurations more easily.

1.2 Specifications

1.2.1 Main CPU Board

- CPU
 - LGA775 socket for Intel[®]CoreTM 2 Duo / Pentium / Celeron Processor with FSB 533/800MHz
- System Chipset
 - Intel[®]945GC + ICH7
- BIOS
 - Phoenix-Award
- System Memory
 - Two 240-pin DDR2 SO-DIMM socket
 - Maximum memory up to 2GB

1.2.2 I/O System

- Standard I/O
 - One VGA
 - One DVI-D
 - Four USB ports 2.0 compliant
 - Two RS-232 port

- Ethernet
 - Two Gigabit Ethernet
- Audio
 - Realtek High Definition codec audio

1.2.3 System Specification

- 31.5" TFT LCD
 - Brightness 450 cd/m2
 - Resolution 1920 x 1080
- Disk drive housing:
 - One 2.5" SATA drive
- Net Weight
 - 25.5 Kg
- Dimension (Main Body Size)
 - 781x 471 x 134mm (DSA-132G)
 - 781x 471 x 134mm (DSA-132R)
- Operation Temperature
 - 0°C to 40°C

NOTE All specifications and images are subject to change without notice.

1.3 Dimensions

This diagram shows you dimensions and outlines of the DSA-132.



1.4 I/O Outlets

The following figures show you the locations of the $\ensuremath{\text{DSA-132}}$ Series I/O outlets.



No.	Connector	No.	Connector
1	Power connector	2	Slot in holder
3	K/B+M/S	4	СОМ
5	VGA/DVI	6	2 x LAN / 4 x USB
7	Audio		

1.5 Package List

When you receive the **DSA-132**, the bundled package should contain the following items:

- DSA-132 device x 1
- Power cord x 1
- CD x 1 (For Drivers)

If you can not find the package or any items are missing, please contact AXIOMTEK distributors immediately.

CHAPTER 2 HARDWARE INSTALLATION

The **DSA-132 Series** are convenient for your various hardware configurations, such as HDD (Hard Disk Drive), Memory Module. The chapter 2 will show you how to install the hardware. It includes:

- CPU, Hard disk Drive and DRAM Installation
- Mounting Method

2.1 Slot in engine box

The **DSA-132 Series** offers a convenient drive bay module for users to install DRAM, CPU and HDD. Please follow the steps:



Step 1 Turn off the system, and unplug the power cord.

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Step 3 Pull out the engine box via the rings as marked.



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Step 4 Loosen the screws as illustration and then pull out fan connector.



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Step 5 Remove the fan.



Step 6 Install CPU and fan. Put CPU and turn on the latch as mark. Then put the fan above the CPU, locate and fasten screws as mark.



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Step 7 Install the Hard Drive. Locate and fasten screws as mark and plug in power cable.



Step 8 Plug in SATA cable.



Step 9 Place the memory module into the socket and press it firmly down until it is fully located. The socket latches are levered upwards and clipped on to the edges of the DIMM. If you would only use one piece DRAM, please install first slot.



Step 10 Slot engine box into the socket.



Step 11 Fasten the screws as illustrated



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2.2 VESA Mounting Method

DSA-132 supports the standard 200 and 400 VESA mount. The photo is as below.



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MEMO

CHAPTER 3 PHOENIX-AWARD BIOS SETUP UTILITY

This chapter provides users with detailed description how to set up basic system configuration through the Phoenix-Award BIOS setup utility.

3.1 Starting

There are two ways to enter the Setup program. You may either turn ON the computer and press immediately, or press the and/or <Ctrl>, <Alt>, and <Esc> keys simultaneously when the following message appears at the bottom of the screen during POST (Power on Self Test).

TO ENTER SETUP PRESS DEL KEY

If the message disappears before you respond and you still want to enter Setup, please restart the system to try it again. Turning the system power OFF and ON, pressing the "RESET" button on the system case or simultaneously pressing <Ctrl>, <Alt>, and keys can restart the system. If you do not press keys at the right time and the system doesn't boot, an error message will pop out to prompt you the following information:

PRESS <F1> TO CONTINUE, <CTRL-ALT-ESC> OR TO ENTER SETUP

To enter the setup screens, follow the steps below:

- 1. Turn on the computer and press the key immediately.
- After you press the <Delete> key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

3.2 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.

These keys include <F1>, <F10>, <Enter>, <ESC>, <Arrow> keys, and so on.

Note Some of navigation keys differ from one screen to another.

3.3 Main Menu

Once you enter the Award BIOS CMOS Setup Utility, the Main Menu appears on the screen. In the Main Menu, there are several Setup functions and a couple of Exit options for your selection. Use arrow keys to select the Setup Page you intend to configure then press <Enter> to accept or enter its sub-menu.

Phoenix - AwardBIC	Phoenix - AwardBIOS CMOS Setup Utility	
 Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status 	Frequency/Voltage Control Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving	
Esc : Quit ↑ ↓→ ← : Select Item F10 : Save & Exit Setup		
Time, Date, Hard Disk Type		

NOTE If your computer can not boot after making and saving system changes with Setup, the Award BIOS will reset your system to the CMOS default settings via its built-in override feature.

It is strongly recommended that you should avoid changing the chipset's defaults. Both Award and your system manufacturer have

PHOENIX-AWARD BIOS Setup Utility

carefully set up these defaults that provide the best performance and reliability.

3.4 Standard CMOS Setup Menu

The Standard CMOS Setup Menu displays basic information about your system. Use arrow keys to highlight each item, and use <PgUp> or <PgDn> key to select the value you want in each item.



• Date

The date format is <day>, <date> <month> <year>. Press <F3> to show the calendar.

day	It is determined by the BIOS and read only, from Sunday to Saturday.	
date	It can be keyed with the numerical/ function key, from 1 to 31.	
month	It is from January to December.	
year	It shows the current year of BIOS.	

• Time

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This item shows current time of your system with the format <hour> <minute> <second>. The time is calculated based on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

• IDE Channel 0/1/2/3 Master/Slave

These items identify the types of each IDE channel installed in the computer. There are 45 predefined types (Type 1 to Type 45) and 2 user's definable types (Type User) for Enhanced IDE BIOS. Press <PgUp>/<+> or <PgDn>/<-> to select a numbered hard disk type, or directly type the number and press <Enter>. Please be noted your drive's specifications must match the drive table. The hard disk will not work properly if you enter improper information. If your hard disk drive type does not match or is not listed, you can use Type User to manually define your own drive type.

If selecting Type User, you will be asked to enter related information in the following items. Directly key in the information and press <Enter>. This information should be provided in the documentation from your hard disk vendor or the system manufacturer.

If the HDD interface controller supports ESDI, select "Type 1". If the HDD interface controller supports SCSI, select "None". If the HDD interface controller supports CD-ROM, select "None".

CYLS.	number of cylinders	LANDZONE	landing zone
HEADS	number of heads	SECTORS	number of sectors
PRECOMP	write precom	MODE	HDD access mode

If there is no hard disk drive installed, select NONE and press <Enter>.

• Halt On

This item determines whether the system will halt or not, if an error is detected while powering up.

No errors	The system booting will halt on any errors detected. (default)	
All errors	Whenever BIOS detects a non-fatal error, the system will stop and you will be prompted.	
All, But Keyboard	The system booting will not stop for a keyboard error; it will stop for other errors.	
All, But Diskette	The system booting will not stop for a disk error; it will stop for other errors.	
All, But Disk/Key	The system booting will not stop for a keyboard or disk error; it will stop for other errors.	

PHOENIX-AWARD BIOS Setup Utility

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3.5 Advanced BIOS Features

This section allows you to configure and improve your system, to set up some system features according to your preference.

Phoenix - AwardBIOS CMOS Setup Utility Advanced BIOS Features		
 CPU Feature Hard Disk Boot Priority CPU L1 & L2 Cache Quick Power On Shelf Test First Boot Device Second Boot Device Boot Other Device Boot Other Device Boot Up NumLock Status Security Option APIC Mode MPS Version Control For OS OS Select For DRAM>64MB Report No FDD For WIN 95 	[Press Enter] [Press Enter] [Enabled] [Hard Disk] [Hard Disk] [CDROM] [Enabled] [On] [Setup] [Enabled] [1.4] [Non-OS2] [No]	item Help Menu Level ►
↑ ↓ → ← :Move Enter:Select +/-/F F5:Previous Value	PU/PD:Value F10:Save Es	SC:Exit F1:General Help I Defaults

• CPU Feature

Scroll to this item and press <Enter> to view the CPU Feature sub menu.

	Phoenix - AwardBIOS CMOS Setup Utility CPU Features	
	Delay Prior to Thermal[16 Min]Item HelpThermal Management[Thermal Monitor 2]Menu Level ▶▶Limit CPUID MaxVal[Disabled]C1E Function[Auto]Execute Disable Bit[Enabled]Virtualization Technology[Enabled]	
	↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F7:Optimized Defaults	
	Delay prior to Thermal This filed is used to select the time that would force the to a 50% duty cycle when it exceeds its maximum oper temperature therefore protecting the CPU and the syste board from overheating to ensure a safe computing environment	CPU ating em
>	 Thermal Management Thermal Monitor 1 On-die throttling Thermal Monitor 2 Ratio and VID transition 	
	Limit CPUID MaxVal The CPUID instruction if some newer CPUs will return value greater than 3. The default is "Disabled", because problem does not exist in the Windows series operating systems. If you are using an operating system other tha Windows, this problem may occur. To avoid this proble you can enable this field to limit the return value to 3 or	a e this) an m,

Press <Esc> to return to the Advanced BIOS Features page.

lesser than 3.

• Hard Disk Boot Priority

Scroll to this item and press <Enter> to view the sub menu to decide the disk boot priority.

Phoenix - AwardBIOS CMOS Setup Utility Hard Disk Boot Priority	
 Pri. Master : Pri. Slave : Sec. Master : Sec. Slave : USBHDD0 : USBHDD1 : USBHDD2 : Bootable Add-in Cards 	Item Help Menu Level ►► Use <↑> or <↓> to select a device, then press <+> to move it up, or <> to move it down the list. Press <esc> to exit this menu.</esc>
│ ↓:Move PU/PD/+/-:Change Priority F5:Previous Values F7:C	F10:Save ESC:Exit Optimized Defaults

Press <Esc> to return to the Advanced BIOS Features page.

• CPU L1 & L2 Cache

These two options speed up memory access. However, it depends on the CPU/chipset design. The default setting is "Enabled". CPUs without built-in internal cache will not provide the "CPU Internal Cache" item on the menu.

Enabled	Enable cache
Disabled	Disable cache

Quick Power On Self Test

This option speeds up Power on Self Test (POST) after you turn on the system power. If set as Enabled, BIOS will shorten or skip some check items during POST. The default setting is "Enabled".

Enabled	Enable Quick POST	
Disabled	Normal POST	

• First/Second/Third Boot Device

These items let you select the 1st, 2nd, and 3rd devices that the system will search for during its boot-up sequence. There is a wide range of options for your selection.

Boot Other Device

This item allows the user to enable/disable the boot device not listed on the First/Second/Third boot devices option above. The default setting is "Enabled".

Boot Up NumLock Status

Set the the Num Lock status when the system is powered on. The default value is "On".

Security Option

This item allows you to limit access to the system and Setup, or just to Setup. The default value is "Setup".

System	If a wrong password is entered at the prompt, the system will not boot, the access to Setup will be denied, either.
Setup	If a wrong password is entered at the prompt, the system will boot, but the access to Setup will be denied.



NOTE To disable the security, select PASSWORD SETTING at Main Menu and then you will be asked to enter a password. Do not type anything, just press <Enter> and it will disable the security. Once the security is disabled, the system will boot and you can enter Setup freely.

APIC Mode

Use this item to enable or disable APIC (Advanced Programmable Interrupt Controller) mode that provides symmetric multiprocessing (SMP) for systems.

MPS Version Control For OS

This item specifies the version of the Multiprocessor Specification (MPS). Version 1.4 has extended configuration tables to improve support for multiple PCI bus configurations and provide future expandability.

• OS Select for DRAM >64MB

This item allows you to access the memory over 64MB in OS/2.

• Report No FDD For WIN 95

Select Yes to release an IRQ when the system doesn't have any floppy drive, for compatibility with Windows 95 logo certification. In the Integrated Peripherals screen, select Disabled for the Onboard FDC Controller field.

3.6 Advanced Chipset Features

This section allows you to configure and improve your system, to set up some system features according to your preference.

Phoenix - AwardBIOS CMOS Setup Utility Advanced Chipset Features		
PCI Express Port 1 PCI Express Port 2 PCI Express Port 3 PCI Express Port 4 PCI Express Port 5 PCI Express Port 6 PCI-E Compliancy Mode ** VGA Setting ** PEG/Onchip VGA Control On-Chip Frame Buffer Size DVMT Mode DVMT/FIXED Memory Size Boot Display	[Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [v1.0a] [Auto] [8MB] [DVMT] [128MB] [LCD]	Item Help Menu Level ►
Panel Scaling Panel Number	[Auto] [1920 X 1080 48 bit]	
↑ ↓ → ← :Move Enter:Select +/- F5:Previous Val	-/PU/PD:Value F10:Save ES ues F7:Optimized	SC:Exit F1:General Help I Defaults

• PCI-E Compliancy Mode

This item allows users to set the version of the PCI Express based on the specification by which the motherboard has to comply.

*** VGA Setting ***

PEG/Onchip VGA Control

Use this item to choose the primary display card.

• On-Chip Frame Buffer Size

Use this item to set the VGA frame buffer size.

DVMT Mode

DVMT (Dynamic Video Memory Technology) helps you select the video mode.

DVMT/Fixed Memory Size

DVMT (Dynamic Video Memory Technology) allows you to select a maximum size of dynamic amount usage of the video memory. The system would configure the video memory dependent on your application.

• Boot Display

This item is to select Display Device that the screen will be shown.

Panel Scaling

This item shows the setting of panel scaling and operates the scaling function that the panel output can fit the screen resolution connected to the output port.

Panel Number

This item is to select panel resolution that you want.

3.7 Integrated Peripherals

This section allows you to configure your OnChip IDE Device, Onboard Device and SuperIO Device.

Phoenix - AwardBIOS CMOS Setup Utility Integrated Peripherals		
 OnChip IDE Device Onboard Device SuperIO Device Onboard Serial Port 3 Onboard Serial Port 4 Onboard Serial Port 5 Onboard Serial Port 6 Onboard Lan Boot ROM 	[Press Enter] [Press Enter] [3E8/IRQ4] [2E8/IRQ3] [2F0/IRQ4] [2E0/IRQ3] [Disable]	item Help Menu Level ►
↑ ↓ → ← :Move Enter:Select + F5:Previous Va	-/-/PU/PD:Value F10:Save alues F7:Optimiz	ESC:Exit F1:General Help

• OnChip IDE Device

Scroll to this item and press <Enter> to view the sub menu OnChip IDE Device.

Phoenix - AwardBIOS CMOS Setup Utility OnChip IDE Device		
IDE HDD Block Mode IDE DMA transfer access On-Chip Primary PCI IDE IDE Primary Master PIO IDE Primary Slave PIO IDE Primary Master UMDA IDE Primary Slave UMDA On-Chip Secondary PCI IDE IDE Secondary Master PIO IDE Secondary Slave PIO IDE Secondary Master UMDA IDE Secondary Salve UMDA SATA Mode SATA PORT Speed Settings	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [IDE] [Disabled]	Item Help Menu Level ►► If your IDE hard drive supports block mode select Enabled for automatic detection of the optimal number of block read/writes per sector the drive can support.
↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help E5:Provious Values F7:Ontimized Defaults		

> IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read/write. If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read/writes per sector the drive can support.

> IDE DMA transfer access

Automatic data transfer between system memory and IDE device with minimum CPU intervention. This improves data throughput and frees CPU to perform other tasks.

> On-Chip Primary/Secondary PCI IDE

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Select Enabled to activate each channel separately. The default value is *"Enabled"*.

NOTE Choosing Disabled for these options will automatically remove the IDE Primary Master/ Slave PIO and/or IDE Secondary Master/Slave PIO items on the menu.

> IDE Primary/Secondary Master/Slave PIO

The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 to 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device.

IDE Primary/Secondary Master/Slave UDMA Select the mode of operation for the IDE drive. Ultra DMA-33/66/100/133 implementation is possible only if your IDE hard drive supports it and the operating environment includes a DMA driver. If your hard drive and system software both support Ultra DMA-33/66/100/133, select Auto to enable UDMA mode by BIOS.

- SATA Mode There are these options for you to set up SATA mode: IDE or RAID.
- SATA PORT Speed Settings
 Use this item to select SATA I or SATA II device support forcedly.

Press <Esc> to return to the Integrated Peripherals page.

• Onboard Device

Scroll to this item and press <Enter> to view the sub menu Onboard Device.

Phoenix - AwardBIOS CMOS Setup Utility Onboard Device		
USB Controller USB 2.0 Controller USB Keyboard Support AC97 Audio Select	[Enabled] [Enabled] [Enabled] [Enabled]	item Help Menu Level ►►
↑ ↓ → ← :Move Enter:Select → F5:Previous V:	+/-/PU/PD:Value F10:Sav alues F7:Optir	ve ESC:Exit F1:General Help nized Defaults

> USB Controller

Enable this item if you are using the USB in the system. You should disable this item if a higher-level controller is added.

> USB 2.0 Controller

Enable this item if you are using the EHCI (USB2.0) controller in the system.

- USB Keyboard Support
 Enable this item if the system has a Universal Serial Bus (USB) controller, and you have a USB keyboard.
- > AC97 Audio Select

Use this item to enable or disable the onboard AC97 Audio function.

Press <Esc> to return to the Integrated Peripherals page.

• Super IO Device

Scroll to this item and press <Enter> to view the sub menu Super IO Device.

Phoenix - AwardBIOS CMOS Setup Utility SuperIO Device				
Onboard Serial Onboard Serial PWRON After P	Port 1 Port 2 WR-Fail	[3F8/IRC [2F8/IRC [off]	[4] [33]	item Help Menu Level ► ►
↑ ↓→ ← :Move I F	Enter:Select +/-/P F5:Previous Value	U/PD:Value s	F10:Save Es	SC:Exit F1:General Help I Defaults

Onboard Serial Port 1/2 Select an address and corresponding interrupt for the serial

port.PWRON After PWR-Fail

This item enables your computer to automatically restart or return to its operating status.

Press <Esc> to return to the Integrated Peripherals page.

• Onboard Serial Port 3/4/5/6

Select an address and corresponding interrupt for the serial port.

• Onboard Lan Boot ROM

Use this item to enable or disable the Boot ROM function of the onboard LAN chip when the system boots up.

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3.8 Power Management Setup

The Power Management Setup allows you to save energy of your system effectively. It will shut down the hard disk and turn OFF video display after a period of inactivity.

Phoenix - AwardBIOS CMOS Setup Utility Power Management Setup		
ACPI Eunction	Enabled	Item Help
	[S1/POS)]	Menu Level 🕨
Rower Management	[Min Soving]	
Video Off In Suspend	[Yes]	
Suspend Type	[Stop Grant]	
Suspend Mode	[Disabled]	
HDD Power Down	[Disabled]	
Soft-Off by PWR-BTTN	[Instant-Off]	
Power On by Ring	[Enabled]	
Resume by Alarm	[Disabled]	
Date <of month=""> Alarm</of>	0	
Time <hh:mm:ss> Alarm</hh:mm:ss>	0:0:0	
Primary IDE 0	[Disabled]	
Primary IDE 1	[Disabled]	
Secondary IDE 0	[Disabled]	
Secondary IDE 1	[Disabled]	
FDD, COM, LPT Port	[Disabled]	
↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help		
F5:Previous Values F7:Optimized Defaults		

ACPI Function

This item allows you to enable/disable the Advanced Configuration and Power Management (ACPI). The function is always "*Enabled*".

• ACPI Suspend Type

This item specifies the power saving modes for ACPI function. If your operating system supports ACPI, such as Windows 98SE, Windows ME and Windows 2000, you can choose to enter the Standby mode in S1 (POS) or S3 (STR) fashion through the setting of this field. Options are:

[S1(POS)] The S1 sleep mode is a low power state. In this state, no system context is lost (CPU or chipset) and hardware maintains all system context.

[S3(STR)] The S3 sleep mode is a lower power state where the information of system configuration and open

applications/files is saved to main memory that remains powered while most other hardware components turn off to save energy. The information stored in memory will be used to restore the system when a "wake up" event occurs.

Power Management

This option allows you to select the type (or degree) of power saving for Doze, Standby, and Suspend modes. The table below describes each power management mode:

Max Saving	It is maximum power savings, only available for SL CPUs. The inactivity period is 1 minute in each mode.
User Define	It sets each mode. Select time-out periods in the PM Timers section.
Min Saving	It is minimum power savings. The inactivity period is 1 hour in each mode (except the hard drive).
Disabled	Default value

• Video Off Method

This setting determines the manner in which the monitor is blanked.

V/H SYNC+Blank	Turns OFF vertical and horizontal synchronization ports and writes blanks to the video buffer
DPMS	Select this option if your monitor supports the Display Power Management Signaling (DPMS) standard of the Video Electronics Standards Association (VESA). Use the software supplied for your video subsystem to select video power management values.
Blank Screen	System only writes blanks to the video buffer.

• Video Off In Suspend

This item defines if the video is powered down when the system is put into suspend mode.

• Suspend Type

If this item is set to the default Stop Grant, the CPU will go into Idle Mode during power saving mode.

Suspend Mode

After the selected period of system inactivity (1 minute to 1 hour), all devices except the CPU shut off. The default value is *"Disabled"*.

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Disabled	System will never enter SUSPEND mode
1/2/4/6/8/10/2 0/30/40 Min/1 Hr	Defines the continuous idle time before the system entering SUSPEND mode. If any item defined in (J) is enabled & active, SUSPEND timer will be reloaded

• HDD Power Down

If HDD activity is not detected for the length of time specified in this field, the hard disk drive will be powered down while all other devices remain active.

• Soft-Off by PWR-BTTN

This option only works with systems using an ATX power supply. It also allows the user to define which type of soft power OFF sequence the system will follow. The default value is "Instant-Off".

Instant-Off	This option follows the conventional manner systems perform when power is turned OFF. Instant-Off is a soft power OFF sequence requiring only the switching of the power supply button to OFF
Delay 4 Sec.	Upon turning OFF system from the power switch, this option will delay the complete system power OFF sequence by approximately 4 seconds. Within this delay period, system will temporarily enter into Suspend Mode enabling you to restart the system at once.

• Power On by Ring

This option allows the system to resume or wake up upon detecting any ring signals coming from an installed modem. The default value is *"Enabled"*.

• Resume by Alarm

If enable this item, the system can automatically resume after a fixed time in accordance with the system's RTC (realtime clock).

• Primary/Secondary IDE 0/1

Use this item to configure the IDE devices monitored by the system.

• FDD, COM, LPT Port

Use this item to configure the FDD, COM and LPT ports monitored by the system.

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3.9 **PnP/PCI** Configuration Setup

This section describes the configuration of PCI (Personal Computer Interconnect) bus system, which allows I/O devices to operate at speeds close to the CPU speed while communicating with other important components. This section covers very technical items that only experienced users could change default settings.

Phoenix - AwardBIOS CMOS Setup Utility PnP/PCI Configurations		
Reset Configuration Data	[Disabled]	ltem Help Menu Level ►
Resources Controlled By	[Auto(ESCD)]	
X IRQ Resources		
PCI/VGA Palette Snoop	[Disabled]	
** PCI Express relative items *		
Maximum Payload Size	[4096]	
↑ ↓ → ← :Move Enter:Select +/-/P	U/PD:Value F10:Save E	SC:Exit F1:General Help
F5:Previous Value	es F7:Optimize	d Defaults

Reset Configuration Data

Normally, you leave this item Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup or if installing a new add-on cause the system reconfiguration a serious conflict that the operating system can not boot. Options: Enabled, Disabled.

Resources Controlled By

The Award Plug and Play BIOS can automatically configure all boot and Plug and Play-compatible devices. If you select Auto, all interrupt request (IRQ), DMA assignment, and Used DMA fields disappear, as the BIOS automatically assigns them. The default value is "Manual".

IRQ Resources

When resources are controlled manually, assign each system

interrupt to one of the following types in accordance with the type of devices using the interrupt:

- Legacy ISA Devices compliant with the original PC AT bus specification, requiring a specific interrupt (such as IRQ4 for serial port 1).
- PCI/ISA PnP Devices compliant with the Plug and Play standard, whether designed for PCI or ISA bus architecture. The default value is "PCI/ISA PnP".

PCI/VGA Palette Snoop

Some non-standard VGA display cards may not show colors properly. This item allows you to set whether MPEG ISA/VESA VGA Cards can work with PCI/VGA or not. When enabled, a PCI/VGA can work with a MPEG ISA/VESA VGA card; when disabled, a PCI/VGA cannot work with a MPEG ISA/VESA Card.

** PCI Express relative items **

• Maximum Payload Size

When using DDR SDRAM and Buffer size selection, another consideration in designing a payload memory is the size of the buffer for data storage. Maximum Payload Size defines the maximum TLP (Transaction Layer Packet) data payload size for the device.

3.10 PC Health Status

This section supports hardware monitering that lets you monitor those parameters for critical voltages, temperatures and fan speed of the board.

Phoenix - AwardBIOS CMOS Setup Utility PC Health Status	
Current SYS Temp Current CPU Temp SYS FAN Speed CPU FAN Speed Vcore 1.8 V 3.3 V 12 V VCC	Item Help Menu Level ►
	e ESC:Exit F1:General Help nized Defaults

• Current SYSTEM Temperature

Show you the current system temperature.

• Current CPU Temperature

These read-only fields show the functions of the hardware thermal sensor by CPU thermal diode that monitors the chip blocks to ensure a stable system.

• Vcore/1.8V/3.3V/12V/VCC

Show you the voltage of Vcore/1.8V/3.3V/12V/VCC.

3.11 Frequency/Voltage Control

This section is to control the CPU frequency and Supply Voltage, DIMM OverVoltage and AGP voltage.



• Auto Detect PCI Clk

The enabled item can automatically disable the clock source for a PCI slot without a module, to reduce EMI (ElectroMagnetic Interference).

• Spread Spectrum

If spread spectrum is enabled, EMI (ElectroMagnetic Interference) generated by the system can be significantly reduced.

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3.12 Load Optimized Defaults

This option allows you to load your system configuration with default values. These default settings are optimized to enable high performance features.



To load CMOS SRAM with SETUP default values, please enter "Y". If not, please enter "N".

3.13 Set Supervisor/User Password

You can set a supervisor or user password, or both of them. The differences between them are:

- 1. **Supervisor password:** You can enter and change the options on the setup menu.
- 2. **User password:** You can just enter, but have no right to change the options on the setup menu.

When you select this function, the following message will appear at the center of the screen to assist you in creating a password. ENTER PASSWORD

Type a maximum eight-character password, and press <Enter>. This typed password will clear previously entered password from the CMOS memory. You will be asked to confirm this password. Type this password again and press <Enter>. You may also press <Esc> to abort this selection and not enter a password.

To disable the password, just press <Enter> when you are prompted to enter a password. A message will confirm the password is getting disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

PASSWORD DISABLED

When a password is enabled, you have to type it every time you enter the Setup. It prevents any unauthorized persons from changing your system configuration.

Additionally, when a password is enabled, you can also require the BIOS to request a password every time the system reboots. This would prevent unauthorized use of your computer.

You decide when the password is required for the BIOS Features Setup Menu and its Security option. If the Security option is set to "System", the password is required during booting up and entry into the Setup; if it is set as "Setup", a prompt will only appear before entering the Setup.

3.14 Save & Exit Setup

This section allows you to determine whether or not to accept your modifications. Type "Y" to quit the setup utility and save all changes into the CMOS memory. Type "N" to bring you back to the Setup utility.



3.15 Exit Without Saving

Select this option to exit the Setup utility without saving changes you have made in this session. Type "Y", and it will quit the Setup utility without saving your modifications. Type "N" to return to the Setup utility.



CHAPTER 4 DRIVERS INSTALLATION

4.1 System

DSA-132 supports Windows XP and Window 7. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

1. Insert Intel Express Installer Driver CD and select the "\Driver\".



2. Select your operating system driver to install.

Name	Date modified	Type
Setp 1. Chipset_32_64	4/21/2011 8:48 AM	File fold
Setp 2. Graphic	4/21/2011 11:50 AM	File fold
Setp 3. LAN	4/21/2011 11:11 AM	File fold
J Setp 4. AC97_32_64	4/21/2011 10:06 AM	File fold
Step 5. IR-TOUCH	4/21/2011 9:02 AM	File fold

- 3. Select all files and follow the installing procedure.
- 4. Follow the installation step to restart the computer.





When you have install Window 7 and Graphic driver, You will need to change the appearance of your display to set up with full screen.

Please read carefully and follow the below steps to change the display resolution.

Step 1: Click right button on desktop, and choose "screen resolution"

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View Sort by Refresh	*
Paste Paste shortcut Undo Rename	Ctrl+Z
Graphics Properties Graphics Options	
New	•
Gadgets Personalize	

Step 2: Set "show desktop only on 1" on Multiple display.

Display:	1 2. Multiple Monitors 👻
Resolution:	800 × 600 -
prientation:	Landscape 👻
ultiple displays:	Duplicate these displays 🔻
is is currently you	Duplicate these displays Extend these displays Show desktop only on 1
	Chave deciden only on / he

Step 3: And then choose "Mobile PC Display" on Display.

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	1 2	
Display:	2. Generic Non-PnP Monitor	
Resolution:	2. Generic Non-PnP Monyor	
Orientation:	Landscape	
Multiple displays:	lultiple displays: Show desktop only on 1 -	
🛕 You must selec	t Apply before making additional changes.	
Make this my m	ain display	
Make text and othe	r items larger or smaller	
What display settin	gs should I choose?	

Step 4: Click "Apply".

hange the a	ppearance of your displays	
	1 2	Detect Identify
ilay:	1. Mobile PC Display	
lution:	800 × 600 -	
tation:	Landscape ~	
ple displays:	Show desktop only on 1 -	
ou must selec ike this my m	t Apply before making additional changes. ain display	Advanced settings
text and othe display setting	r items larger or smaller gs should I choose?	
	OK	Cancel Apply

Step 5: Click "Keep changes".

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Step 6: And then you can choose "1920 x 1080".



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Step 7: Finish.



Drivers Installation

CHAPTER 5 OSD Menu

5.1 Hot key

DSA-132 uses OSD to configure brightness, power...etc. You could configure it via hot key.



Hot key Function Definition

OSD key	Function
POWER	POWER ON / OFF
_	ADJ-/ SEL-
+	ADJ+/SEL+
Monitor	Monitor ON / OFF
Monitor State	Monitor Power state