ViGo POS MODEL M60XX-XX USERS GUIDE





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INTRODUCTION

This manual will guide you through the initial setup; guide will inform you of what you can expect when you first use ViGo POS system. It is presented in three parts as outlined in the table below.

Introduction	Purpose of manual.
Equipment Description	Specifications, a detailed description of each system components.
Bios	Provides information on BIOS configurations.

GLOSSARY OF TERMS

- LCD Liquid Crystal Display
- ◆ VGA Video Graphics Array
- ♦ LAN Local Area Network
- DDR Double Data Rate
- POS Point of Sale
- ♦ BIOS Basic Input Output System
- UPS Uninterruptible Power Supply
- PIN Personal Identification Number
- KVS Kitchen Video System
- ♦ HDD Hard Disk Drive
- PCI Peripheral Component Interconnect
- ◆ PnP Plug and Play
- IDE Integrated/Intelligent Drive Electronics
- ACPI Advanced Configuration and Power Interface

POS REGISTER

	Item	Description
1.	LCD display	A screen that shows programming or order information.
2.	Power indicator	Shows that power is present.
3.	Bar Code Reader	Scanner for reading bar codes. This is a feature and may not be present on all registers.
4.	Magnetic Card Reader	Accepts employee keycards. Provides access to functions. Not present on all registers.
5.	PIN pad	PIN pad allowing the use of debit cards. This is a feature and may not be present on all registers.
6.	Customer Display	Displays to the customer order total, tax total, and any changes due. It may also show present advertisement information or messages. This is a feature and may not be present on all registers.
7.	Credit Card Reader	Magnetic card reader for credit/debit card transactions. This is a feature and may not be present on all registers.
8.	USB 2.0 ports	(Universal serial bus) ports. Used for connecting keyboard or mouse.
9.	Microphone Jack	Jack to plug in external microphone.

10. Speaker/Headphone Jack Jack to plug in external speaker or headphone.





Item

Description

11. Power switch Push in momentarily to turn "on", push and hold to turn "off". You can reach it by sliding your hand under the right side of the register toward the back. Leave the register on at all times, except when servicing the unit. If a register is not plugged into an uninterruptible power supply (UPS), you must turn it off during power failures as well.



Customer Side

CONNECTOR WELL

Item	Description
13. COMM serial port 1	Connects to coin dispensers, remote customer displays, remote order
(RS-232-C)	displays, EFT devices, printers, and other serial devices.
14. Printer port	Connects to a cable from a printer—A Centronics-compatible.
15. LAN receptacle	Connects to a LAN cable.
16. COMM serial port 4	Connects to coin dispensers, remote customer displays, remote order
(RS-232-C)	displays, EFT devices, printers, and other serial devices.
17. Status lights	Provide troubleshooting information to service personnel. (KVS, HDD, Power, Status).
18. COMM serial port 7 (RS-232-C)	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers, and other serial devices.
19. COMM serial port 2 (RS-232-C)	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers, and other serial devices.
20. COMM serial port 3 (RS-232-C)	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers, and other serial devices.
21. Keyboard receptacle	Allows connection of a PC keyboard (mini DIN).
22. MSR	Magnetic strip reader.
23. Cash drawer receptacle	Connect to the cables from up to two cash drawers.
24. Remote video receptacle25. USB connectors	Connects to the cable from the remote video controller. (Universal serial bus) Connect to other devices like coin dispensers or printers.



SPECIFICATIONS

ViGo POS Features:

- Processors
 - o F6100R 2.0GHz Celeron Processor w/fan
 - o F6101R 2.0GHz Pentium 4 Processor w/fan
 - o F6102R-2.5GHz Celeron Processor w/fan
 - $\circ \quad F6103R-2.4GHz \ Pentium \ 4 \ Processor \ w/fan$
 - o F6104R 2.8GHz Pentium 4 Processor w/fan
- Memory
 - o F6201R 256 MB DDR SDRAM
 - o F6202R 512MB DDR SDRAM
 - F6203R 1GB DDR SDRAM
- Magnetic Strip Readers
 - F6300R Operator 2 Track Mag Strip Reader Swipe
 - F6303R 3-Track Mag Stripe reader (crew side)
 - F6320R Blank Cover Plate (when no MSR ordered)
- ♦ Hard Drive/CD ROM/DVD
 - F6400R 3.5" 10GB Hard Disk Drive
 - F6430R DVD-RW Drive Laptop Style Thin
 - o F6435R CD-ROM Drive Ultra Slim
- PCI Option Cards
 - o F6500R 512 KB BB SRAM
 - o F6550R Mini-PCI 802.11 G Wireless LAN

ViGo POS Options:

- F6700R Stereo Audio/Dual USB
- ♦ F6750R Powered USB

Introduction

This user manual describes the AMI BIOS setup program and configuration options of the ViGo motherboard. The BIOS setup program allows users to modify the basic system configuration.

Starting Setup

The AMI BIOS is activated when the computer is turned on. The setup program can be activated by pressing the F2 key as soon as the system is turned on.

Using Setup

Use the arrow keys to highlight items, press **ENTER** to select, use the PageUp and PageDown keys to change entries, press **F1** for help and press **ESC** to quit. Navigation keys are shown in.

Function
Move to previous item
Move to next item
Move to the item on the left hand side
Move to the item on the right hand side
Main Menu – Quit and not save changes into CMOS
Status Page Setup Menu and Option Page Setup Menu Exit current
page and return to Main Menu
Increase the numeric value or make changes
Decrease the numeric value or make changes
General help, only for Status Page Setup Menu and Option Page Setup
Menu
Change color from total 16 colors. F2 to select color forward.
Save all the CMOS changes, only for Main Menu
Navigation Keys

Getting Help

When **F1** is pressed a small help window describing the appropriate keys to use and the possible selections for the highlighted item appears. To exit the Help Window press **ESC** or the **F1** key again.

Unable to Reboot after Configuration Changes

If the computer cannot boot after changes to the system configuration is made, CMOS defaults. Use the clear CMOS jumper described in the motherboard user manual.

BIOS Menu Bar

The menu bar on top of the BIOS screen has the following main items:

- Main Changes the basic system configuration.
- Advanced Changes the advanced system settings.
- **PCIPnP** Changes the advanced PCI/PnP Settings
- **Boot** Changes the system boot configuration.
- Chipset Changes the chipset settings.
- **Power** Changes power management settings.
- Exit Selects exit options and loads default settings

The following sections completely describe the configuration options found in the menu items at the top of the BIOS screen and listed above.

<u>Main</u>

The **Main** BIOS menu appears when the **BIOS** Setup program is entered. The **Main** menu gives an overview of the basic system information.

			BIOS SE	TUP UTILITY				
Main	Advanced	PCIPnP	Boot	Security	Ch	ipset	Power	Exit
System	n Overview					Use	[ENTER] , [[AB]
AMIBIC Versio	IS m : 08.00.1	10				sele	ct a field	
Build ID	Date: 05/05/0 : 0ABEV03	05 37				Use conf:	[+] or [-] igure syst	to em Time.
Proces Type	sor : Intel(R) Pentium	(R) 4 CP	U 2.00GHz				
Speed Count	: 2000MH: : 1	Z						
System Size	Memory : 248MB					⇔ 1∔	Select S Select I	creen tem
System	Time		[08:4	7:11]		+- Tab F1	Change F Select F	ield ield Holp
Jysten	Date		LIMA	13/20011		F10 ESC	Save and Exit	Exit
	u02 53 (C) Conur i ch	1 1985-2	AA2. America	n Mer	atren	ds. Inc	
	002-33 (or copyr ryn	C-1003 7		n ncí	յանքնու	107 1101	

BIOS Menu 1: Main

➔ System Overview

The **System Overview** lists a brief summary of different system components. The fields in **System Overview** cannot be changed. The items shown in the system overview include:

- AMI BIOS: Displays auto-detected BIOS information
 - O Version: Current BIOS version
 - O **Build Date**: Date the current BIOS version was made
 - O ID: Installed BIOS ID
 - Processor: Displays auto-detected CPU specifications
 - **O Type**: Names the currently installed processor
 - Speed: Lists the processor speed
 - O Count: The number of CPUs on the motherboard
- System Memory: Displays the auto-detected system memory.
 - O Size: Lists memory size

The System Overview field also has two user configurable fields:

➔ System Time [xx:xx:xx]

Use the System Time option to set the system time. Manually enter the hours, minutes and seconds.

➔ System Date [xx/xx/xx]

Use the System Date option to set the system date. Manually enter the day, month and year.

Advanced

Use the **Advanced** menu to configure the CPU and peripheral devices through the following sub-menus:

WARNING:

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

- CPU Configuration
- IDE Configuration
- SuperIO Configuration
- Hardware Health Configuration
- ACPI Configuration
- Event Log Configuration
- USB Configuration

		BIOS SE	TUP UTILITY				
Main Advanced	PCIPnP	Boot	Security	Chips	set	Power	Exit
Advanced Settings WARNING: Setting way cause • CPU Configuratio • IDE Configuratio • SuperIO Configuratio • Hardware Health • ACPI Configuratio • USB Configuratio	urong value e system to on cation Configurat ion guration on	s in bel malfunc	ow sections tion.		Confi Confi t↓ Enter F1 F10 ESC	gure CPU. Select S Select I Go to Su General Save and Exit	creen tem b Screen Help Exit
002.53	(C) Copyr igh	it 1985-2	1992, America	n Megat	trend	s, Inc.	

BIOS Menu 2: Advanced

CPU Configuration

	BIOS SETUP UTILITY		
Advanced			
Configure advanced CPU settin	វ្រទ	This	should be enabled
Manufacturer: Intel Brand String: Intel(R) Pentium(R) 4 CPU 2.00GHz Frequency : 2.00GHz FSB Speed : 400MHz		OSes that cannot support CPUs with extended CPUID functions.	
Cache L1 : 8 KB Cache L2 : 512 KB			
Ratio Status : Locked Ratio Actual Value: 20 Ratio CMOS Setting: VID CMOS Setting : Max CPUID Value Limit:	[8] [62] [Disabled]	<pre> +→ t↓ +- F1 F10 ESC</pre>	Select Screen Select Item Change Option General Help Save and Exit Exit
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Use the **CPU Configuration** menu to view detailed CPU specifications and configure the CPU.

BIOS Menu 3: CPU Configuration

The CPU Configuration menu (BIOS Menu 3) lists the following CPU details:

- Manufacturer: Lists the name of the CPU manufacturer
- **Brand String**: Lists the brand name of the CPU being used
- **Frequency:** Lists the CPU processing speed
- **FSB Speed**: Lists the FSB speed
- Cache L1: Lists the CPU L1 cache size
- Cache L2: Lists the CPU L2 cache size
- **Ratio Status**: Values in option are predetermined
- Max CPUID Value Limit: Values in option are predetermined

IDE Configuration

Use the **IDE Configuration** menu to change and/or set the configuration of the IDE devices installed in the system.

	BIOS SETUP UTILITY	
Advanced		
IDE Configuration		DISABLED: disables the interrated IDE
OnBoard PCI IDE Controller	[Primary]	Controller. PRIMARY: enables only the Primary IDE
 Primary IDE Master Primary IDE Slave 	: [Not Detected] : [Not Detected]	Controller. SECONDARY: enables only the Secondary IDE Controller. BOTH: enables both IDE Controllers. Select Screen t Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit
u02.61 (C)Comunia	ht 1985-2006, American Me	watrends, Inc.
BIOS Menu 4: IDE Configuration		guvionito - 2110 -

→ OnBoard PCI IDE Controller [Primary]

Use the **OnBoard PCI IDE Controller** BIOS option to specify the IDE channels used by the onboard PCI IDE controller. The following configuration options are available.

- ➔ Disabled Prevents the system from using the onboard IDE controller
- → Primary DEFAULT Only allows the system to detect the Primary IDE channel, including both the Primary Master and the Primary Slave

IDE Master, IDE Slave

Use the **IDE Master** and **IDE Slave** configuration menu to view both primary and secondary IDE device details and configure the IDE devices connected to the system.

BIOS SETUP UTILITY					
Advanced					
Primary IDE Master		Sele	ct the type		
Device :Hard Disk Vendor :Maxtor 6E040L0 Size :41.1GB LBA Mode :Supported Block Mode:16Sectors PIO Mode :4 Async DMA :MultiWord DMA-2 Ultra DMA :Ultra DMA-6 S.M.A.R.T.:Supported		to ti	he system.		
Туре	[Auto]	()	Select Screen		
LBA/Large Mode	[Auto]	1↓ -	Select Item		
Block (Multi-Sector Transfer)	[Auto]	+-	Change Option		
PIO Mode	[Auto]	F1	General Help		
DMA Mode	[Auto]	F10	Save and Exit		
S.M.A.K.T.	LAutoJ	ESC	Exit		
32Bit Data Transfer	LDisabled				
uA2 53 (C)Comminist	un2 53 (C) Commight 1985-2002 American Magatronde Inc				
voz. 55 (c) cupyr rync	1903 2002) Hiller Icall He	ga ei chi	10) 1000		

B	IOS SETUP UTILITY		
Advanced			
Primary IDE Slave		Selector Selector	ct the type evice connected
Device :Not Detected		to ti	he system.
Туре	[Auto]		
LBA/Large Mode	[Auto]		
Block (Multi-Sector Transfer)	[Auto]		
PIO Mode	[Auto]		
S.M.A.R.T.	[Auto]		
32Bit Data Transfer	[Disabled]		
		↔ ↑↓ +- F1 F10 ESC	Select Screen Select Item Change Option General Help Save and Exit Exit
v02.53 (C) Copyright	1985-2002, American Me	gatren	ds, Inc.

Super IO Configuration

	BIOS SETUP UTILIT	'Y
Advanced		
Super IO Configuration		Auto option sets all
Serial Port Global Setup	[Auto]	the con ports to their default setting. Manual ontion allows
Serial Port 1 Address Port IRQ	[3F8] [IRQ4]	the user to select resources for each
Serial Port 2 Address Port IRQ	[2F8] [IRQ3]	port manually.
Serial Port 3 Address Port IRQ	[3E8] [IRQ11]	
Serial Port 4 Address Port IRQ	[2E8] [IRQ15]	← Select Screen ↑↓ Select Item +- Change Option E1 Compared Helm
Serial Port 5 Setting	[Auto]	F1 General help F10 Save and Exit
Serial Port 6 Address Port IRQ	[270] [IRQ5]	V LOG LATE
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Use the **Super IO Configuration** menu to set or change the configurations for the FDD controllers, parallel ports and serial ports.

BIOS Menu 5: Super IO Configuration

→ Serial Port Address

Use the Serial Port Address option to select the Serial Port base address.

→ Disabled No base address is assigned to Serial Port

Port IRQ Options:

- ♦ IRQ 3
- ♦ IRQ 4
- ♦ IRQ 5
- ♦ IRQ 11
- IRQ 12
- ♦ IRQ 15

Hardware Health Configuration

The **Hardware Health Configuration** menu shows the operating temperature, fan speeds and system voltages. The values in image may not correspond to POS system, image is for reference only.

Advanced	BIOS SETUP UTILITY					
Hardware Health Configu	Enables Hardware					
H/W Health Function	Device.					
Hardware Health Event Monitoring						
CPU Temperature System Temperature	:69°C/156°F :61°C/141°F					
CPU Fan Speed	:1896 RPM					
CPU Voltage +2.5V +3.3V +5V +12V -12V +1.5V +5V Standby +3.3V Standby	:1.403 V :2.467 V :3.354 V :5.067 V :11.951 V :-12.214 V :1.500 V :4.985 V :3.290 V	 ↔ Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit 				
v02.53 (C)Copyright 1985-2002, American Megatrends, Inc.						

BIOS Menu 6: Hardware Health Configuration

The following system parameters and values are shown. The system parameters that are monitored are:

- **System Temperatures**: The following system temperatures are monitored
 - O System Temperature
 - O CPU Temperature
- **Fan Speeds**: The CPU cooling fan speed is monitored.
 - O CPU Fan Speed
- Voltages: The following system voltages are monitored
 - O CPU Voltage
 - O +2.5V
 - O +3.3V
 - O +5V
 - O +12V
 - O -12V
 - O +1.5V
 - O +5V Standby
 - O +3.3V Standby

ACPI Configuration

The **ACPI Configuration** menu configures the Advanced Configuration and Power Interface (ACPI) and Power Management (APM) options.

BIOS SE	ETUP UTILITY
Advanced	
ACPI Settings	Enable / Disable
ACPI Aware O/S [Yes]	ACPI support for Operating System.
► Advanced ACPI Configuration	ENABLE: If OS supports ACPI.
	DISABLE: If OS does not support ACPI.
	 ↔ Select Screen ↑↓ Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit
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OS Menu 7: ACPI Configuration	

→ ACPI Aware O/S [Yes]

Use the **ACPI Aware O/S** option to enable the system to configure ACPI power saving options. ACPI can only be implemented if the system OS complies with the ACPI standard. Windows 98, Windows 2000, and Windows XP all comply with ACPI.

- ✤ No Disables the ACPI support for the OS. This selection should be disabled if the OS does not support ACPI
- → Yes DEFAULT Enables the ACPI support for the operating system. This selection should be enabled if the OS does support ACPI

Advanced ACPI Configuration

	BIOS SETUP UTILITY		
Advanced			
Advanced ACPI Configuration		Enable RSD	P pointers Fixed Suctor
ACPI 2.0 Features AMI OEMB table Headless mode	[No] [Enabled] [Disabled]	to 64-bit] Description ← Selec ↑↓ Selec ← Chang F1 Genen F10 Save ESC Exit	Fixed System n Tables. ct Screen ct Item ge Option ral Help and Exit
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BIOS Menu 8: ACPI Configuration

→ ACPI 2.0 Features [No]

- → No DEFAULT
- → Yes

→ AMI OEMB table [Enabled]

- → Enabled DEFAULT
- → Disabled

→ Headless Mode [Disabled]

- → Disabled DEFAULT
- → Enabled

Event Log Configuration

Use the **Event Log Configuration** menu to view or delete the system event log storing POSt and run-time errors and events.

	BIOS SETUP UTILITY	
Advanced		
Event Logging details		View all unread events
View Event Log Mark all events as read Clear Event Log Event Log Statistics		un the Lvent Lug.
PCI Error Logging	[Disabled]	
		 ↔ Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit
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BIOS Menu 9: Event Log Configuration		

➔ View Event Log

Enable the View Event Log option to view all unread event entries in a display window.

→ Mark all events as read

Enable the Mark all events as read option to mark all unread events as read.

→ Clear Event Log

Enable the **Clear Event Log** option to discard all events in the Event Log.

USB Configuration

BIOS SETUP UTILITY	
Advanced	
USB Configuration	Enables support for
Module Version - 2.24.0-9.4	option disables
USB Devices Enabled : 1 Keyboard, 1 Hub, 1 Drive	no USB devices are connected.
Legacy USB Support [Enabled] USB 2.0 Controller Mode [HiSpeed]	
► USB Mass Storage Device Configuration	
	 ↔ Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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Use the **USB Configuration** menu to read USB configuration information and configure the USB settings.

BIOS Menu 10: USB Configuration

➔ USB Configuration

The USB Configuration field shows the system USB configuration. The items listed are:

■ Module Version: x.xxxxx.xxxxx

➔ USB Devices Enabled

The USB Devices Enabled field lists the USB devices that are enabled on the system

→ Legacy USB Support [Enabled]

The **Legacy USB Support** BIOS option refers to USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard does not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB driver loaded on the system.

- Disabled
 Legacy USB support disabled
- Enabled DEFAULT Legacy USB support enabled

→ USB2.0 Controller Mode [HiSpeed]

Use the USB2.0 Controller Mode option to set the speed of the USB2.0 controller.

- → **FullSpeed** The controller is capable of operating at 12Mb/s
- → HiSpeed DEFAULT The controller is capable of operating at 480Mb/s

Use the PCI/PnP menu to configure advanced PCI and PnP settings.



Setting wrong values for the BIOS selections in the PCIPnP BIOS menu may cause the system to malfunction.

BIOS SETUP UTILITY						
Main Advanced <mark>PCIPn</mark>	P Boot	Security	Ch	ipset	Power	Exit
Advanced PCI/PnP Settings			1 1	NO:	lets the H	IOS
				cont	igure all	the
WHENING: Setting wrong va	lues in bel	ow sections		dev 1	ces in the	system.
may cause system	to malfund	tion.		AF2:	lets the	
D1 9 D1 079	EN - 1			opera	ating syst	.em
Plug α Play 0/5				CONI	Igure Plug	ana
PLI Latency limer	[04]			Play	(PNP) dev	ices not
HILOCATE INU TO PUL VOH	LYESI	11-11		requ	ired for t	007 11
Palette Snooping	LU1Sa	LV1sabledJ your			system na	s a Plug
PUI INE BUSMASTER	LU1Sa		and Play operating			ting
UTIBOARD PCI/ISH IDE CARD	LHUTC	11		syst	em.	
2007	[Oursi	lablal			Salast 9	onoon
	LHVa I Côus i			+1	Select J	ton
	LANG I				Change (lem
	LHVa I Cours i			P1	Concerne 1	1011 1011
	LHVa I Côus i			F1	Selleral Saus and	ne ip Evit
	LHVa I Cours i			F10	Save and	LAIL
1KU10 TD011	LHVa I Cours i			Lac	LXIL	
	LHVa I [August		_			
TVATA	LHVal	Idulei				
u02 52 (C) Comm	wht 1995 3		m. Mey	t.non	lo Inc	
Contraction and the second sec	iyiit 1000-2	.0025 HMELICA	m nei	jatren	157 1110	

BIOS Menu 11: PCI/PnP Configuration

→ Plug & Play O/S [No]

Use the **Plug & Play O/S** BIOS option to specify whether system plug and play devices are configured by the operating system or the BIOS.

→	No	DEFAULT	If the operating system does not meet the Plug and Play
			specifications, this option allows the BIOS to configure all the
			devices in the system.

➔ Yes This setting allows the operating system to change the interrupt, I/O, and DMA settings. Set this option if the system is running Plug and Play aware operating systems.

→ IRQ# [Available]

Use the **IRQ#** address to specify what IRQs can be assigned to a particular peripheral device.

→	Available	DEFAULT	The specified IRQ is available to be used by PCI/PnP
			devices
→	Reserved		The specified IRQ is reserved for use by Legacy ISA devices

Available IRQ addresses are:

- IRQ3
- IRQ4
- IRQ5
- IRQ7
- IRQ9
- **IRQ** 10
- IRQ 11
- **IRQ** 14

DMA Channel# [Available] →

Use the DMA Channel# option to assign a specific DMA channel to a particular PCI/PnP device.

→ Available DEFAULT The specified DMA is available to be used by PCI/PnP devices

→ Reserved The specified DMA is reserved for use by Legacy ISA devices

Available DMA Channels are:

- DM Channel 0
- DM Channel 3
- DM Channel 5
- DM Channel 6
- DM Channel 7

Boot

Use the **Boot** menu to configure system boot options.

			BIOS SE	TUP UTILITY				
Main	Advanced	PCIPnP	Boot	Security	Ch	ipset	Power	Exit
Boot S ► Boot ► Boot ► Hard ► Remo Initia	ettings Settings Co Device Prio Disk Drives vable Drives te Pre-boot	mfiguratio rity ; Services	n [Hot	Key]		Confi durin	gure Sett g System Select S	ings Boot.
						†↓ Enter F1 F10 ESC	Select I Go to Su General Save and Exit	tem b Screen Help Exit
	v02.53 ((C) Copyr igh	t 1985-2	00 <mark>2, Americ</mark> a	n Meç	gatrend	s, Inc.	
BIOS Moou 1	2. Boot							

BIOS Menu 12: Boot

Boot Settings Configuration

	BIOS SETUP UTILITY	
	Boot	
Boot Settings Configuration Quick Boot AddOn ROM Display Mode Bootup Num-Lock PS/2 Mouse Support Wait For 'F1' If Error Hit 'DEL' Message Display Interrupt 19 Capture	[Enabled] [Force BIOS] [On] [Auto] [Enabled] [Enabled] [Disabled]	Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the system.
		 ↔ Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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Use the **Boot Settings Configuration** menu to configure advanced system boot options.

BIOS Menu 13: Boot Settings Configuration

→ Quick Boot [Enabled]

Use the Quick Boot BIOS option to make the computer speed up the boot process.

→	Disabled		No POST procedures are skipped		
→	Enabled	DEFAULT	Some POST procedures are skipped to decrease the system boot time		

→ AddOn ROM Display Mode [Force BIOS]

Use the AddOn ROM Display Mode option to allow add-on ROM (read-only memory) messages to be displayed.

→	Force BIOS	DEFAULT	The system forces third party BIOS to display during system boot.
→	Keep Current		The system displays normal information during system boot.

→ Bootup Num-Lock [On]

Use the **Bootup Num-Lock** BIOS option to specify if the number lock setting must be modified during boot up.

→ Off Does not enable the keyboard Number Lock automatically. To use

the 10-keys on the keyboard, press the Number Lock key located on the upper left-hand corner of the 10-key pad. The Number Lock LED on the keyboard lights up when the Number Lock is engaged.

→ On DEFAULT Allows the Number Lock on the keyboard to be enabled automatically when the computer system boots up. This allows the immediate use of the 10-key numeric keypad located on the right side of the keyboard. To confirm this, the Number Lock LED light on the keyboard is lit.

→ Wait For 'F1' If Error [Enabled]

Use the **Wait for 'F1' if Error** option to specify how the system responds when the system detects an error on boot up.

→	Disabled		If there is an error when booting up, the system does not wait
			for user intervention but continues to boot up in the operating
			system. Only use this setting if there is a known reason for a
			BIOS error to appear. An example would be a system
			administrator must remote boot the system. The computer system does not have a keyboard currently attached.
→	Enabled	DEFAULT	If there is an error during boot up, the system waits for a user to press "F1" and enter the BIOS to rectify the problem. The BIOS can then be adjusted to the correct settings.

→ Hit 'DEL' Message Display [Enabled]

Use the **Hit "DEL" Message Display** option to specify whether the instruction to hit the delete button to enter BIOS during POST appears or not.

>	Disabled	8	No message displayed during POST
→	Enabled	DEFAULT	Displays "Press DEL to run Setup" message in POST

→ Interrupt 19 Capture [Disabled]

Use the **Interrupt 19 Capture** option to allow optional ROMs such as network controllers to trap BIOS interrupt 19.

Disabled DEFAULT Does not allow optional ROM to trap interrupt 19

Boot Device Priority

Use the Boot Device Priority menu to specify the boot sequence from the available devices. Possible boot devices may include: • 1st FLOPPY DRIVE

- HDD
- CD/DVD

	BIOS SETUP UTILITY	
	Boot	
Boot Device Priority 1st Boot Device 2nd Boot Device 3rd Boot Device 4th Boot Device	[SONY_USB-FDU] [PM-Maxtor_6E040L0] [NSC_DP83815/DP8381] [HPM.1.10.14.56]	Specifies the boot sequence from the available devices. A device enclosed in narenthesis has been
		disabled in the corresponding type menu.
		← Select Screen ↑↓ Select Item ← Change Ontion
		F1 General Help F10 Save and Exit
		ESC Exit
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<u>Chipset</u>

Use the **Chipset** menu to access the NorthBridge configuration menu.



Setting the wrong values for the Chipset BIOS selections in the Chipset BIOS menu may cause the system to malfunction.

			BIOS SE	TUP UTILITY				
Main	Advanced	PCIPnP	Boot	Security	Ch:	ipset	Power	Exit
Advanc	ed Chipset S	ettings				Intel	Brookda I	le-G
WARNIN	G: Setting w may cause	rong value system to	s in bel malfunc	ow sections tion.		confi	iguration	options.
▶ Inte▶ Inte	l Brookdale- l ICH4 South	G NorthBri Bridge Con	dge Conf figurati	iguration on				
						t↓ Enter F1 F10 ESC	Select S Select I Go to Su General Save and Exit	Screen Item Ib Screen Help I Exit
	v02.53 (C)Copyright 1985-2002, American Megatrends, Inc.							

BIOS Menu 14: Chipset

Intel Brookdale-G NorthBridge Configuration

B	IOS SETUP UTILITY	
		Chipset
Configure advanced settings fo	r NorthBridge	Select which graphics - controller to use as
Default Primary Video Adapter Internal Graphics Device Graphics Aperture Size Search for MDA Resources IGD - Device 2,Function 1: Boot Type: Flat Panel Type: TV Standard:	[Internal] [Enabled, 8MB] [64MB] [Yes] [Enabled] [VBIOS Default] [1600x1200LVDS] [Automatic]	the primary boot device.
NTSC Minor Standards: PAL Minor Standards: SECAM Minor Standards:	ENTSC MI EPAL BI ESECAM LI	↔ Select Screen
Flat Panel Scaling:	[Auto]	<pre> f4 Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit</pre>
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Use the **NorthBridge Configuration** menu to configure the northbridge chipset.

BIOS Menu 15:NorthBridge Chipset Configuration

Intel ICH4 SouthBridge Configuration

Use the **SouthBridge Configuration** menu to configure the southbridge chipset.

BIOS SETUP UTILITY				
		Ch:	ipset	
Configure advanced settings	for SouthBridge		Enabl	le / Disable ICH4 Controller
ICH4 Dev31 Func1, IDE ICH4 Dev31 Func3, SMBUS ICH4 Dev31 Func5, AC'97 ICH4 Dev31 Func6, AC'97 ICH4 Dev29 Func0, USB#1 ICH4 Dev29 Func1, USB#2 ICH4 Dev29 Func2, USB#3 ICH4 Dev29 Func2, FHCI	[Enabled] [Enabled] [Enabled] [Disabled] [Enabled] [Enabled] [Enabled] [Enabled]		funct	tion.
Sound Blaster Decode Microsoft Sound Decode MIDI Decode Adlib Range 388h-38Bh Game Port A Game Port B LPC 4Eh-4Fh Decode LPC 2Eh-2Fh Decode	[Disabled] [Disabled] [Disabled] [Enabled] [Disabled] [Disabled] [Enabled] [Enabled]		↔ ↑↓ +- F1 F10 ESC	Select Screen Select Item Change Option General Help Save and Exit Exit
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Power Key

The Power menu allows the advanced	l power management	options to be configured.
The rower menta and we the dataneed	poner management	options to be comiguida.

Main	Advanced	PCIPnP	BIOS SE Boot	Securitu	Chi	nset	Power	Exit
APM Co	nfiguration					Enable	e or disa	ble
Power Hard D Standb Thrott System Power	Management/A isk Power Do y Time Out le Slow Cloc: Thermal Button Mode	PM wn Mode k Ratio	Enab Disa Disa [50%] Disa	led] bled] bled] bled]		APM.		
Restor	e on AC Powe	r Loss	[Powe	r Off]				
Resume	On Ring	bled]		<pre></pre>	Select S Select I Change D General Save and Exit	creen tem ption Help Exit		
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BIOS Menu 16:Power

→ Power Management/APM [Enabled]

Use the **Power Management/APM** BIOS option to enable access to the advanced power management features. If this option is disabled, the only other option on the screen is the **Power Button Mode**.

- Disabled
 Disables the Advanced Power Management (APM) feature
- Enabled DEFAULT Enables the APM feature

→ Hard Disk Power Down Mode [Disabled]

Use the **Hard Disk Power Down Mode** BIOS option to enable the hard drive to power down when not in use.

- Disabled DEFAULT Disables the Hard Disk Power Down Mode feature
- → Enabled Enables the Hard Disk Power Down Mode feature

→ Standby Time Out [Disabled]

Use the **Standby Time Out** BIOS option to enable the system to enter standby when not in use.

- Disabled DEFAULT Disables the Standby feature
- Enabled Enables the Standby feature

→ System Thermal [Disabled]

Disabled DEFAULT Disables the System Thermal feat	ure
---	-----

→ Enabled Enables the System Thermal feature

→ Power Button Mode [On/Off]

Use the **Power Button Mode** BIOS to specify how the power button functions.

→	On/Off	DEFAULT	When the power button is pressed the system is either turned on or off
→	Suspend		When the power button is pressed the system goes into suspend mode

→ Restore on AC Power Loss [Power Off]

The Restore on AC Power Loss BIOS option specifies what state the system returns to if there is a sudden loss of power to the system.

-	-	-	
→	Power Off	DEFAULT	The system remains turned off

→	Power On	The system turns on
---	----------	---------------------

→ Last State The system returns to its previous state. If it was on, it turns itself on. If it was off, it remains off.

→ Resume on Ring [Disabled]

Use the **Resume on Ring** BIOS to specify if the system resumes on ring from the modem.

- Disabled DEFAULT Disables Resume on Ring feature
- → Enabled Enables Resume on Ring feature

Exit

Use the Exit menu to load default BI	OS values, optimal fa	ailsafe values and to save configu
BIO	S SETUP UTILITY	
Main Advanced PCIPnP Bo	ot Security	<u>Chipset Power</u> Exit
Exit Options		Exit system setup
Save Changes and Exit		changes.
Discard Changes		F10 key can be used
Load Optimal Defaults Load Failsafe Defaults		Tor this operation.
		←→ Select Screen 14 Select Item
		Enter Go to Sub Scree
		F10 Save and Exit
		ESU Exit
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BIOS Menu 17:Exit

Save Changes and Exit →

Use the Save Changes and Exit option to save the changes made to the BIOS options and to exit the BIOS configuration setup program.

Discard Changes and Exit ➔

Use the **Discard Changes and Exit** option to exit the BIOS configuration setup program without saving the changes made to the system.

→ **Discard Changes**

Use the **Discard Changes** option to discard the changes and remain in the BIOS configuration setup program.

Load Optimal Defaults →

Use the Load Optimal Defaults option to load the optimal default values for each of the parameters on the Setup menus. F9 key can be used for this operation.

Load Failsafe Defaults →

Use the Load Failsafe Defaults option to load failsafe default values for each of the parameters on the Setup menus. F8 key can be used for this operation.

PAR PHONE NUMBERS

Service

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Canada: 800.387.4963

Parts

USA: 800.PAR.PART

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<u>Sales</u>

Continental USA except New York: 800.448.6505

New York State Only: 800.533.6311

Outside Continental USA: 315-738-0600

Driver Support

http://www.partech.com/pti_products_service_existing_customer.cfm