
2. Introduction and Specification

1) Introduction

(1) High Performance PC

- Intel® Core™ 2 Duo Processor and DDR II Memory
- nVIDIA Geforce 8400 G PCI-Express Graphic
- Intel Santa Rosa Platform
- Wireless LAN (option), Bluetooth (option)

(2) Convenient feature

- Internal Camera (Option) for easily video and photo capture
- Integrated DMB for mobility TV receiving

(3) Prudent Design for easy use.

- Price competitive power preservation
- Variant Multi-media card support
- Good feeling with free type touchpad, advanced design appearance.



2. Introduction and Specification

2) Specification

<i>Processor and Motherboard</i>	<i>Description</i>
CPU	Intel® Core 2 Duo T7000 (1.86GHz) ~ T7700 (2.4G) and All CPU at Q4'07.35W (64bit)
Speed	T7100 : 1.8GHz T7300 : 2.0GHz T7500 : 2.2GHz T7700 : 2.4GHz
Cache	4MB/2MB L2 Cache in Merom
Chipset	Intel PM/GM965+ ICH8M
BIOS	8 Mbit, Flash upgradable, SPI type
Thermal Design Performance	MAX. 35W
Memory	
Memory / Max. Memory	512MB ~ 4GB
Memory type	PC2-4200(533MHz) / PC2-5300(667MHz) DDR2 SODIMM
Memory Modules	512MB, 1GB, 2GB SODIMM
Sockets	2-slot SODIMM's
Display and Graphics	
LCD	12.1" WXGA (200nits , Glare only)
LCD Vendor	Samsung AMLCD WXGA (LTN121W1-L03-G) AUO WXGA (B121EW01V3)
12.1" WXGA	
LCD Viewable Area	261.12 x 163.2mm (H x V)
LCD Resolution	1280 x 800 x 262,144 color (18 bit)
Dot Pitch	0.204 x 0.204mm (H x V)
Viewing angle	Hor. +40/-40, Ver. +20/-40
Contrast Ratio	typ.400 (CR)
Brightness	min.180, typ.200 (cd/m2)
Response time	Rising typ.10ms / max.15ms, Falling typ.15ms / max.20ms
Graphics Controller	Factory option Mobile Intel GMA X3000 NVIDIA GeForce 8400M G (Physical 128MB + TurboCache)
Intel Internal GFX	Mobile Intel GMA X3000
Video Memory	128MB / 256M / 512M with DVMT
Max.Resolution for LFP LVDS	1920 x 1200 x 32Bits color (WUXGA)
Max.Resolution for External Monitor	2048 x 1536 @60HZ (CRT)

2. Introduction and Specification

NVIDIA External GFX	NVIDIA GeForce 8400M G
Video Memory	NVIDIA GeForce 8400M G (Physical 128MB + TurboCache)
Max.Resolution for LFP LVDS	1680 x 1050 x 18Bits color (WSXGA+)
Max.Resolution for External Monitor	2048 x 1536 @85HZ (CRT)
Audio	
Sound	High Definition Audio
Controller	HD Audio Codec, ALC262
Conversion	Built-in high performance 20-bit ADC & 24-bit DAC
Internal Interfaces	Embedded 2 stereo speakers, Internal microphone
Speaker Power Rating	2 Speakers x 2 Watt with enclosure each
External Interfaces	Microphone, Headphone, S/PDIF
Controls	Keyboard volume control
Microphone	Mono Microphone
Microphone	Mono
Sensitivity	-44dB
Output Impedance	2.2KΩ
Storage	
Hard Disk Drive	9.5mmH 2.5" HDD, Removable
Supports	SMART Ultra DMA 33/66/100, DMA Mode 2/4 ; SATA
Average Access Time	13m sec.
Speed	5400 / 7200 RPM , Hybrid HDD, TMR/PMR Type
Capacity	80GB / 100GB / 120GB / 160GB / 200GB / 250GB : HGST, Hitachi, Samsung - 80 ~ 250 GB SATA 5400rpm - 80 ~ 200 GB SATA 7200rpm - 80 ~ 160GB SATA 5400rpm, Hybride + 256MB - 120 ~ 250GB SATA 5400rpm, Hybride + 5126MB
Optical Disk Drive	DVD / Combo / Super Multi DL & w/LightScribe (12.7mm/PATA) Bluera y / HD-DVD
Type	Fixed type (Factory Option)
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding

2. Introduction and Specification

Optical Driver Modules	
Combo Drive 1	Factory Option
Module type	Fixed 12.7mm Slim
Speed	8x DVD-ROM, 24x RW, 24x CD-R : TSST, TS-L332A
Average Access Time	DVD 130ms Typ, CD 130ms Typ
Weight	176g or less
S/W Supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Combo Drive 2	Factory Option
Module type	Fixed 12.7mm Slim
Speed	8x DVD-ROM, 24x RW, 24x CD-R, 24x CD : TSST, TS-L462D
Average Access Time	DVD 130ms Typ, CD 130ms Typ..
Weight	176g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Super Multi Dual Layer 1	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R 2.4x DVD+R DL, 4x DVD±RW, 24x CD-R, 16x CD-RW, 8x DVD, 24x CD : Panasonic UJ-850
Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	190g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Super Multi Dual Layer 2	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD : TSSTTS-L632D
Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	180g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Super MultiDual Layer 3	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD : TeacDV-W28EC
Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	180g or less
S/W supplied	Cyberlink DVD Solution

2. Introduction and Specification

Security	RPC-II Regional Encoding
Super MultiDual Layer Lightscribe	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD : <i>TSST TS-L632M</i>
Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	180g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Network Tools	—
Fax/Modem	56Kbps / V.92 Azalia Modem, DELPHI (D40) (Factory Option)
Chipset	CSP1040 AGR A3 & A3 5V1
Features	RJ11 Output
LAN	10/100 Ethernet
Chipset	Marvell 88E8039
Features	RJ45 Output
802.11g Wireless LAN	Intel PRO/Wireless 3945BG: <i>Intel 802.11b/g</i>
Type	Mini card (Factory Option)
Chipset	Golan
Antenna	Integrated 2 Antenna
802.11a/g Wireless LAN	Intel PRO/Wireless 3945ABG: <i>Intel 802.11a/b/g</i>
Type	Mini card (Factory Option)
Chipset	Golan
Antenna	Integrated 2 Antenna
802.11a/g/n Wireless LAN	Intel PRO/Wireless 4965ABGN: <i>Intel 802.11a/b/g/n</i>
Type	Mini card (Factory Option)
Chipset	Kedron
Antenna	Integrated 3 Antenna
Bluetooth	BCM92045NMD : Factory Option
Type	USB daughter card with integrated PIFA antenna
Chipset	Broadcom BCM2045
Standard	version 2.0
I/O Interface	
PC CardBus Slots	1 PCMCIA Type II slot
Controller	RICOH R5C847
Support	32bit CardBus cards

2. Introduction and Specification

I/O Ports	
USB Port	2 (USB2.0)
Video (CRT) Port	1
Audio Jacks	Headphone + S/PDIF, MIC-in
Modem / LAN	RJ11, RJ45
Power	1(5pie)
TV Antenna Jack	External DMB Antenna socket (Factory Option)
Security	Kensington Lock
Input Devices	
Camera	1.3M Pixels Digital Camera (Factory Option)
Key board	88KEY(KR/US), 89KEY(UK/FR/GM/SP)
	Travel length 2.6mm/ Key Pitch 19.05mm
Touchpad	Synaptics Touchpad (Plat type with Scroll area)
Easy Button	Vista : Hot start, XP : AVS
Multi Memory Card Slot	
Controller	R5C843
Type	Memory stick / Memory stick pro / SD / xD / MMC (High speed MMC)
Power and Power Management	
Battery	SSB-Q30LS6 (6cells, Smart Li-Ion Battery)
Dimension	204 x 52.2 x 21mm
Weight	320g (max)
Recharge Time	2 hours to 100% with Windows on & off
Battery Life	over 4hours (Battery mark 4.01)
Details of Cell	6cells (2Parallel 3Serial)
Voltage	11.1Vdc
Battery Capacity	2400mAh/cell
Battery Rating	11.1V / 4800mAh (53.28Wh)
AC Adapter	AD-6019S
Output Power	60Watts
Dimension	160 X 70 X 29mm
Weight (AC Adapter)	300g ± 50g
Worldwide Compatibility	Auto-sensing 100 - 240VAC
Line Frequency	50 / 60Hz
Adapter Rating - Input	100V - 240V, 1.8A
Adapter Rating - Output	19.0VDC / 3.16A
Power Management Features	ACPI 3.0 support, Standby(S3), Hibernate(S4)
System Dimensions	

2. Introduction and Specification

Dimensions (W X D X H)	299 x 217 x 26.9~36.1mm
Weight (Full system w/ 6cell Battery)	1.86kg
	Status : No options, 6cell battery, 12.1" LCD
Materials	LCD back / Front : PC/ABS
	Bottom / Top : PC/ABS

3) Key Feature

	Q35	Q45
		
CPU	Intel Core Solo T1300, T1400 Intel Core Duo T2300~2700.	667/800MHz Intel Core 2 Duo Processor (Merom)
Chipset	945GM/PM (Calistoga)	965GM/PM(Crestline)
Memory	DDR2 533 / 667MHz	DDR2 533 / 667MHz
Graphic	Intel 950 GMA Solution	Intel GMA X3000 Solution / nVIDIA Geforce 8400M G
LCD	12.1" WXGA Glare	12.1" WXGA Glare
HDD	PATA / SATA	SATA
ODD	12.7mm	12.7mm
Port	2USB, VGA, Headphone, MIC, S/PDIF 1394(4pin), RJ45, RJ11, PC-Card, 6-in-1, AC-IN, DMB Antenna, Kensington Lock	2USB, VGA, Headphone, MIC, S/PDIF 1394(4pin), RJ45, RJ11, PC-Card, 6-in-1, AC-IN, DMB Antenna, Kensington Lock
Battery	6cell	6cell
Design	Proto type	2nd Proto type

2. Introduction and Specification

4) Option Partlist

HDD



BA59-01999A	HTS541660J9SA00	5400rpm, 60G, SATA, 8M
BA59-01946A	MHV2060BH-PL	5400rpm, 60G, SATA, 8M
BA59-02084A	MHW2060BH	5400rpm, 60G, SATA, 8M
BA59-02038A	HM060HI	5400rpm, 60G, SATA, 8M
BA59-02001A	HTS541680J9SA00	5400rpm, 80G, SATA, 8M
BA59-01947A	MHV2080BH-PL	5400rpm, 80G, SATA, 8M
BA59-02085A	MHW2080BH	5400rpm, 80G, SATA, 8M
BA59-02009A	ST980815AS	5400rpm, 80G, SATA, 8M
BA59-01742A	HTS541010G9SA00	5400rpm, 100G, SATA, 8M
BA59-01948A	MHV2100BH-PL	5400rpm, 100G, SATA, 8M
BA59-02086A	MHW2100BH	5400rpm, 100G, SATA, 8M
BA59-02014A	HM101JI	5400rpm, 100G, SATA, FFS
BA59-02010A	ST9100828AS	5400rpm, 100G, SATA, 8M
BA59-02002A	HTS541612J9SA00	5400rpm, 120G, SATA, 8M
BA59-01957A	MHV2120BH-PL	5400rpm, 120G, SATA, 8M
BA59-02087A	MHW2120BH	5400rpm, 120G, SATA, 8M
BA59-02013A	HM121JI	5400rpm, 120G, SATA, FFS
BA59-02039A	HM120JI	5400rpm, 120G, SATA, 8M
BA59-02011A	ST9120822AS	5400rpm, 120G, SATA, 8M
BA59-02003A	HTS541616J9SA00	5400rpm, 160G, SATA, 8M
BA59-02012A	ST9160821AS	5400rpm, 160G, SATA, 8M
BA59-02110A	MHW2160BH-PL	5400rpm, 160G, SATA, 8M

LCD



BA59-01889A	AMLCD	LTN121W1-L03-G
BA59-01893A	AUO	B121EW01V3

MEMORY



1105-001683	DDR2 667Mhz 512MB	M470T6554CZ3-CE6
1105-001684	DDR2 667Mhz 1GB	M470T2953CZ3-CE6

2. Introduction and Specification

CPU



0902-002196	T_T7100(Merom Dual Core)	1.8Ghz(FSB800) 2MB
0902-002197	T_T7300(Merom Dual Core)	2.0Ghz(FSB800) 4MB
0902-002198	T_T7500(Merom Dual Core)	2.2Ghz(FSB800) 4MB
0902-002199	T_T7700(Merom Dual Core)	2.4Ghz(FSB800) 4MB

BLUETOOTH



BA59-01691A	BT MODULE(FOX)	Bluetooth V2.0, T60H928.01, Bluetooth Module
BA59-01916A	BT MODULE(SEM)	Bluetooth V2.0, BTO2P0B2SA, Bluetooth Module,

ODD



BA96-03223A	S_MULTI(DV228EC)	TEAC
BA96-03241A	S_MULTI(UJ-850)	MATSUHITA
BA96-03242A	S_MULTI(TS-L632D)	TSST
BA96-03243A	S_MULT Scrivel(TS-L632M)	TSST
BA96-03222A	COMBO(DW-224E-R)	TEAC
BA96-03239A	COMBO(TS-L462D)	TSST
BA96-03245A	DVD(TS-L332A)	TS-L332A

WLAN_GOLAN



BA59-01723A	802.11a/b/g	WM3B3945AGKOR
BA59-01722A	802.11a/b/g	WM3B3945AGROW
BA59-01721A	802.11a/b/g	WM3B3945AGMOW1
BA59-01724A	802.11a/b/g	WM3B3945AGMOW2

WLAN_MIMO



BA59-02065A	802.11a/b/g/n	4965AGN KOR
BA59-02064A	802.11a/b/g/n	4965AGN ROW
BA59-02062A	802.11a/b/g/n	4965AGN MOW1
BA59-02063A	802.11a/b/g/n	4965AGN MOW2

2. Introduction and Specification

5) New Function

5)-1. Camera (Option)




Internal Camera (Option) for easily video and photo capture



5)-2. HD-DVD, Blue-Ray

HD DVD

HD-DVD is a next generation storage media that can save more data than the existing DVD format. You can record and play better quality HD movies than the existing SD-grade DVD format.

Type	HD DVD	DVD	CD
Logo			
Storage Capacity	15 GB / 30 GB	4.7 GB / 8.5 GB	0.65 GB
Data Rate	36.55 Mbps	11.08 Mbps	7.8 Mbps
Supported Resolution	1920 X 1080(i)	720 X 480	320 X 240

* Data Rate: The amount of data that can be read or written onto a storage media per second.

Supported Disk Types




HD DVD supports the following disk types.

Type	Function
HD DVD-ROM	Reads HD DVD disks.
HD DVD-R	Reads HD DVD disks and writes data onto HD DVD disks once.
HD DVD-RW	Reads HD DVD disks and writes data onto HD DVD disks repeatedly.

2.

Blu-ray

Blu-ray is a next generation storage media that can save approximately 5 to 10 times more data than the existing DVD format. You can record and play better quality HD movies than the existing SD-grade DVD format.

Type	Blu-ray	DVD	CD
Logo			
Storage Capacity	25 GB / 50 GB	4.7 GB / 8.5 GB	0.65 GB
Data Rate	36 Mbps	11.08 Mbps	7.8 Mbps
Supported Resolution	1920 X 1080(i)	720 X 480	320 X 240

* Data Rate: The amount of data that can be read or written onto a storage media per second.

Supported Disk Types

Blu-ray supports the following disk types.

Type	Function
BD-ROM	Reads Blu-ray disks.
BD-R	Reads Blu-ray disks and writes data onto Blu-ray disks once.
BD-RE	Reads Blu-ray disks and writes data onto Blu-ray disks repeatedly.

2. Introduction and Specification

5)-3. New Keyboard

United Kingdom



United States















2. Introduction and Specification

Shortcut Keys

You can use the following functions by pressing the keys below with the Fn key.



Fn+	Name	Function
	REST (Sleep Mode)	Switches to Sleep mode. To wake the computer up, press the Power button.
	Gauge	Shows the remaining battery charge. You can only use this function when the Easy Display Manager program is installed.
	Euro	Enters the Euro monetary unit symbol. This key may not be provided depending on the keyboard type.
	CRT/LCD	Switches the screen output to the LCD or external monitor when an external monitor (or TV) is connected to the computer. p. 57
	Backlit	Turns the LCD backlight on or off.
	Mute	Mutes or cancels mute.
	Samsung Magic Doctor	System diagnosis, recovery and Internet consultation program, Samsung Magic Doctor, will be launched. You can select operation mode when you need maximum system performance or low-noise/low power consumption with one-click.
	Easy SpeedUp Manager	<ul style="list-style-type: none">■ Silent: Low-noise and low power consumption mode■ Normal: Normal Mode■ Speed: Maximum performance mode. The system operates in its maximum performance, and system resources are allocated to the currently active program with priority for maximum performance.
	Wireless LAN	Turns the wireless LAN function on or off in models with wireless LAN capability.
	Touchpad	Turns the Touchpad function on or off. When using an external mouse only, you can turn the Touchpad off.
	Num Lock	Turns the numeric keyboard on or off.
	Scroll Lock	If you turn the Scroll Lock on, you can scroll the screen up or down without changing the cursor location in some applications.

2. Introduction and Specification

6) System Setup (BIOS Setup)

MAIN

□Primary Master

=> The information on the device mounted on the Primary Master. The HDD capacity is displayed in Torino2.

□Secondary Master

=> The information on the device mounted on the Primary Slave. The DVD/CD-ROM is displayed in Torino2.

□Total Memory

=> The total capacity of the current memory installed on the system.

□Slot1 Memory

=> The capacity of the memory installed in Slot 1. The Slot1 memory indicates the capacity of the On-Board Memory in Torino2.

□Slot2 Memory

=> The capacity of the memory installed in Slot 2. The Slot2 memory indicates the capacity of the memory installed in the memory slot in Torino2.

□Graphics Memory

=> The option to determine the maximum size of the dynamic graphic memory in Torino2.

Internal

Main	Advanced	Security	Boot	Exit
System Time [19:00:00]				Item Specific Help <Tap>, <Shift-Tap>, or <Enter> selects field.
System Date [10/01/2006]				
Primary Master XXXXXMB				
Secondary Master CD-ROM/DVD				
CPU Type Intel® Pentium® M				
CPU Speed 1.80 GHz				
Total Memory 512MB				
Slot1 Memory 512MB				
Slot2 Memory Not Installed				
Graphics Memory [Auto : Shared]				
BIOS Version 00ST				
MICOM Version 00ST				
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
ESC Exit	↔ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit	

External

2. Introduction and Specification

Main	Advanced	Security	Boot	Exit
System Time [19:00:00] System Date [10/01/2006] Primary Master XXXXXMB Secondary Master CD-ROM/DVD CPU Type Intel® Pentium® M CPU Speed 1.80 GHz Total Memory 512MB Slot1 Memory 512MB BIOS Version 00ST MICOM Version 00ST				Item Specific Help <Tap>, <Shift-Tap>, or <Enter> selects field.
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
ESC Exit	↔ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit	

Advanced

□Core Multi-Processing

=> The option to determine whether to switch Single core or Dual Core processing.

qIntel(R) SpeedStep(TM)

=> The option to enable or disable the SpeedStep function that automatically changes the CPU clock speed according to CPU usage. Enabling this function extends the battery use time.

qTouch Pad Mouse

=> The option to enable or disable the touch pad function. If the touch pad function is disabled using this option, the disabled status will be retained at the next boot time. For your information, if the touch pad function is disabled by pressing Fn+F9, the touch pad function is enabled at the next boot time.

qBoot from 1394/Firewire

=> The option to enable or disable the 1394 device. If this option is set to enable, you can boot from 1394 device.

qLegacy USB Support

=> The option to determine whether to support a Legacy USB device. If this option is set to Enabled, you can boot from a USB device.

qLarge Disk Access Mode

=> Currently, [DOS] should be set in Torino2. Setting this option is rarely needed.

qEDB (Execute Disable Bit)

=> If [enable], Intel Execute Enable Bit(function) will be enabled.

2. Introduction and Specification

qInternal LAN

=> The option to determine whether to use a cable LAN device of the system.

qCPU Power Saving Mode

=> If [Enabled] is selected, the system can enter C3 mode and save CPU power consumption. However, you may experience performance degradation.

qDelete Recovery Area

=> If you want to delete the HDD recovery solution 2 area included in the Torino2 HDD, this option should be set to [Enabled].

qPurchased Date

=> Displays the date when a user boots the PC for the 10th time.

Main	Advanced	Security	Boot	Exit
Core Multi-Processing : [Enabled] Intel® SpeedStep™ [Enabled] Touch Pad Mouse [Enabled] Legacy USB Support [Enabled] Boot from 1394/Firewire [Disabled] Large Disk Access Mode [DOS] Internal LAN [Enabled] EDB (Execute Disable Bit) [Disabled] CPU Power Saving Mode [Enabled] Delete Recovery Area [Disabled] Purchased Date 2005/10				Item Specific Help Determines whether the 2 nd core is enabled. Disabled = 2 nd core is disabled. Enabled = 2 nd core is enabled.
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
ESC Exit	↔ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit	

Security

qSet the Supervisor Password

=> Select to set the supervisor password.

qSet a User Password

=> Select to set a user password

qSet a HDD 0 Password

=> Select to set a HDD password

qPassword on Boot

=> This is the option for determining whether to ask for a password when the system starts. The supervisor password should already be set.

2. Introduction and Specification

qFixed Disk Boot Sector

=> If [Write Protect] is selected, writing to the boot sector of the HDD is blocked.

Main	Advanced	Security	Boot	Exit
<div> <div>Supervisor Password</div> <div>User Password</div> <div>HDD 0 Password</div> <div>Set Supervisor Password</div> <div>Set User Password</div> <div>Set HDD 0 Password</div> <div>Password on boot</div> <div>Fixed disk boot sector</div> </div> <div> <div>Clear</div> <div>Clear</div> <div>Clear</div> <div>[Enter]</div> <div>[Enter]</div> <div>[Enter]</div> <div>[Disabled]</div> <div>[Normal]</div> </div>				<div>Item Specific Help</div> <div>Supervisor Password controls access to the setup utility</div>
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
ESC Exit	←→ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit	

Boot

qBoot Device Priority

=> Sets the priority of the booting devices.

qNumLock

=> The option to determine whether to switch NumLock on or off when booting.

qEnable Keypad

=> The option to determine how to use the keypad of the keyboard.

- If this option is set to [Only By Fn Key], you have to press a numeric key with the Fn key to enter a number.

- If this option is set to [By NumLock], you can enter a number by just pressing the corresponding numeric key if NumLock is switched On.

qSummary Screen

=> The option to determine whether to display the system information (CPU, memory, HDD) on the screen when booting.

qBoot-time Diagnostic Screen

=> The option to determine whether to display the Samsung logo on the screen when booting.

qPXE OPRM

=> The option to determine whether to always initialize PXE Oproam in relation to a network boot. Since the general user does not use network boot, setting this option to [Only with F12] is recommended.

2. Introduction and Specification

qBrightness Control Mode

=> If this option is set to [Auto], the screen brightness automatically changes to Level 1, when operating on battery power is detected while booting or resuming from S3 status, or when the AC adapter is removed and the system power changes to battery while using the system.

=> If this option is set to [User Control], the previous status is always remembered..

qWireless Device Control

=> If this option is set to [Always On / Off], the Wireless LAN will be turned on / off when system boot into Windows.

=> If this option is set to [Last Status], the Wireless LAN will remain its status as the last time when system in Windows mode.

qSmart Battery Calibration

=> Corrects the difference between the actual battery capacity and the remaining capacity.

Main		Advanced		Security		Boot		Exit	
▶ Boot Device Priority								Item Specific Help	
								Select system boot options	
NumLock		[Off]							
Enable Keypad		[By NumLock]							
Summary Screen		[Disabled]							
Boot-time Diagnostic Screen		[Disabled]							
PXE OPROM		[Only with F12]							
Brightness Mode Control		[Auto]							
Wireless Device Control		[Always On]							
Smart Battery Calibration									
F1	Help	↑↓	Select Item	F5/F6	Change Values	F9	Setup Defaults		
ESC	Exit	↔	Select Menu	Enter	Select ▶ Sub-Menu	F10	Save and Exit		

2. Introduction and Specification

Main	Advanced	Security	Boot	Exit
Boot Device Priority				Item Specific Help
Boot priority order: ▼ IDE CD: DW-224E-C ▼ IDE HDD: HTS541080G9SA00 ▼ USB KEY: Not Installed ▼ USB CDROM: Not Installed ▼ USB FDC: Not Installed ▼ USB HDD: Not Installed ▼ PCI BEV: Not Installed ▼ Excluded from boot order : ▲ USB ZIP: Not Installed ▲ USB LS120: Not Installed				Keys used to view or configure device: Up and Down arrows select a device. <F6> and <F5> moves the device up or down. <x> exclude or include the device to boot. <Shift +1> enables or disables a device. <1 – 4> Loads default boot sequence.
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
ESC Exit	↔ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit	

Exit

qExit Saving changes

=> Saves the changed settings and exits.

qExit Discarding Changes

=> The changed settings are not saved and the previous settings are restored. Exits without saving the changes.

qLoad Setup Defaults

=> Sets the settings to the default values.

qDiscard Changes

=> Restores the changed settings to the previous values.

qSave Changes

=> Saves the changed settings.

2. Introduction and Specification

Main		Advanced		Security		Boot		Exit	
Exit Saving Changes Exit Discarding Changes Load Setup Defaults Discard Changes Save Changes								Item Specific Help	
								Exit System Setup and save your changes to CMOS.	
F1	Help	↑↓	Select Item	F5/F6	Change Values	F9	Setup Defaults		
ESC	Exit	←→	Select Menu	Enter	Select ► Sub-Menu	F10	Save and Exit		

2. Introduction and Specification

7) Description of Main board

7)-1. Top



1	CRT connector	2	USB connector
3	DC-Jack	4	RJ45 connector
5	USB connector	6	LCD connector
7	Camera connector	8	Speaker connector
9	MDC cable connector	10	RJ11 Connector
11	KBD connector	12	On-Top Board Connector
13	ICH8M	14	SODIMM Channel A
15	Touchpad FFC connector	16	FAN Connector
17	PCMCIA Frame	18	MINI-CARD for HSDPA / WiBro (Option)
19	DMB	20	Touchpad button (Left & Right)
21	Internal MIC connector	22	Bluetooth connector

2. Introduction and Specification

7)-1. Bottom



1	CPU socket	2	(G)MCH
3	Graphics Controller	4	Battery connector (J506)
5	ODD connector (J510)	6	SODIMM Channel B(U510)
7	MDC	8	SATA connector (JHDD500)
9	6in1 connector (J514)	10	RTC connector (J509)
11	USIM Board FFC Connector	12	Minicard connector (WLAN)
13	Headphone + S/PDIF Jack	14	MIC jack (J512, J511)
15	Debug connector	16	IEEE 1394 Port (4 pin)