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CHAPTER 1

INTRODUCTION

This manual introduce how to set-up and upgrade this mainboard. It's an overview of the layout and features of the mainboard, and provides necessary information for you to change the configuration or system environment.

This manual is divided into two sections :

PART ONE includes page A and page B about this mainboard's layout diagram. You should refer them when you set-up and upgrade your system hardware.

PART TWO includes three chapters as following:
Chapter 1 is an overview of the mainboard features and this mainboard's packing contents.

Chapter 2 explains how to upgrade and change hardware configuration including memory, CPU, and lists jumper settings and connectors.

Chapter 3 is the user's guides of AWARD BIOS setup utility, and Flash ROM BIOS update procedure. The menu showed in this chapter are default setting.

Your system dealer will set up the mainboard according to your demand of computer. It means your mainboard's current setting may not be the same as the defaults shown in this user's manual. If you would like to change your configuration, please ask your dealer firstly, be sure this will not against your system warranty. Or ask for your dealer to do it for you.

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1-1 SYSTEM FEATURES

-  CPU Supports INTEL Pentium up to 200MHz and later, and AMD5k86 CPUs with 1 ZIF socket 7.
 -  Chipset INTEL 82430FX PCIsset and Winbond high-speed multi I/O chipset.
 -  SRAM Supports two Synchronous SRAM chips on board and one Synchronous COAST (Cache On A STick) slot for Pipeline Burst SRAM module.
 -  SRAM Supports maximum 512KB Synchronous SRAM. On board 256KB and upgradable by using CAOST module size of 256KB / 512KB.
 -  DRAM Using four 72-pin SIMM sockets, provides two banks of 64-bit wide path up to 128MB addressing page mode DRAMs.
 -  DRAM Supports EDO DRAM and mixing of EDO SIMMs with fast page mode DRAM SIMMs among different banks.
 -  Slot Four PCI master slots and four 16-bit ISA slots.
 -  IDE Dual IDE connectors support up to four devices in two channels for connection of high capacity hard disk, CD-ROM, tape backup etc.. PCI IDE controller supports PIO mode 0 to mode 4. Auto detecting of installed IDE devices through BIOS
- u t i l i t y .

-  Green "True" Green power management for CPU stop clock state.
-  I/O On board high-speed Multi-I/O connectors:
 - one FDC port supports two devices up to 2.88MB
 - two 16550A fast UARTs compatible serial ports
 - one EPP/ECP mode parallel port
 The selections of all primary and secondary ISA addressing of COM1 - 4, LPT 1-3 and FDC disable or enable from BIOS SETUP configuration please refer to "CHIPSET FEATURES SETUP" in the chapter three.
-  Dimension Board dimension : 220mm x 260mm , 8.66" x 10.23"

1-2 CHECK LIST OF THE PACKING

The mainboard comes securely packed in a durable box and shipping carton. If any of the above items are missed or damaged, please contact your system dealer.

Each mainboard containing:

	<u>Q'TY</u>	<u>Description</u>
1	Mainboard	: ATC-1000.
1	Diskette	: Enhanced IDE driver (3.5").
1	Cable	: Enhanced IDE connector.
1	Cable	: F.D.D. connector.
1	Cable	: Serial port.
1	Cable	: Serial/Parallel.
1	Manual	: User`s manual.

NOTE : Leave the mainboard in its original packing until you are ready to install it.

CHAPTER 2 INSTALLATION

2-1 CPU INSTALLATION

ATC-1000 can support INTEL Pentium up to 200MHz and later, and AMD 5k86 CPUs. For installation, please notice CPU pin 1 must align with the ZIF socket 7 Pin 1 location.

2-1-1 CPU TYPE SELECTION

CPU		JP13
INTEL	STD*	open (3.3V)
	VRE*	close (3.45V)
AMD	5k86	close (3.45V)

* **STD** ◆3.135V - 3.600V

VRE ◆3.40V - 3.60V

(The fourth line of the mark on the underside of the

processor contains a code that identifies the voltage level type. V is VRE, S is standard.)

2-1-2 CPU CLOCK SETTING

A. INTEL PENTIUM CPU

INTERNAL CPU CLOCK	JP9	JP10	JP11	JP12	Ext.x Fre.
75MHz	close	close	open	open	50x1.5
90MHz	close	open	open	open	60x1.5
100MHz	open	close	open	open	66x1.5
120MHz	close	open	close	open	60x2.0
133MHz	open	close	close	open	66x2.0
150MHz	close	open	close	close	60x2.5
166MHz	open	close	close	close	66x2.5
180MHz	close	open	open	close	60x3.0
200MHz	open	close	open	close	66x3.0

B. AMD 5k86 CPU

INTERNAL CPU CLOCK	JP9	JP10	JP11	JP12	Ext.x Fre.
AMD5k86-P75 SSA/5-75ABR	close	close	open	open	50x1.5
AMD5k86-P90 SSA/5-90ABQ	close	open	open	open	60x1.5
AMD5k86-P100 SSA/5-100ABQ*	open	close	open	open	66x1.5

- ※ The AMD-K5 series CPUs are dual voltage processors, please contact your dealer for jumper setting.
- * If AMD provides dual voltage of AMD5k86-P100 SSA/5-100xxx, please contact your dealer for jumper setting.

2-1-3 CPU CLOCK SETTING

The following setting is for CPU speed higher than 2-1-1.

EXTERNAL CPU CLOCK	JP9	JP10
50(MHz)	close	close
60(MHz)	close	open
66(MHz)	open	close

INTERNAL CPU CLOCK	JP11	JP12
INTEL EXTERNAL CLOCK X 1.5	open	open
INTEL EXTERNAL CLOCK X 2.0	close	open
INTEL EXTERNAL CLOCK X 2.5	close	close

INTEL EXTERNAL CLOCK X 3.0	open	close
-----------------------------------	------	-------

2-2 SYSTEM MEMORY INSTALLATION

ATC-1000 provides four 72-pin SIMM sockets for system memory expansion from 4MB to 128MB. These four SIMMs are arranged to two banks, Bank0 (SIMM 3, 4) and Bank1(SIMM 1, 2), please refer to page A,B. Each bank provides 64-bit wide data path.

This mainboard can accept either Fast Page Mode or EDO Mode (Extended Data Out) DRAM, with a speed at least 70 nanosecond. You should plug DRAM modules into two sockets (same bank) or four sockets at one time. Each pair of modules

must be the same size, type and speed; no matter single-side or double-side module. This mainboard supports mixing of EDO S I M M s w i t h f a s t p a g e mode DRAM SIMMs among different banks.

※ System Memory Combinations Options ※

BANK0 SIMM 3, 4	BANK1 SIMM 1, 2	Total Memory SIMM 1- 4
2MBx2	-	4MB
-	2MBx2	4MB
4MBx2	-	8MB
-	4MBx2	8MB
8MBx2	-	16MB
-	8MBx2	16MB
4MBx2	4MBx2	16MB
16MBx2	-	32MB
-	16MBx2	32MB
8MBx2	8MBx2	32MB
32MBx2	-	64MB
-	32MBx2	64MB
16MBx2	16MBx2	64MB
32MBx2	32MBx2	128MB

2-3 SRAM INSTALLATION

ATC-1000 is built-in 256KB Sync. Pipeline Burst SRAM on board and provides a Sync. SRAM module in COAST slot for f u r t h e r expansion.

The on board TAG SRAM (location U24) is for on board Sync. SRAM only. The upgraded Pipeline Burst SRAM module must use the kind of module with TAG SRAM.

※ System Memory Combinations Options ※

SRAM TYPE	SRAM SIZE	DATA SRAM	TAG SRAM
Synchronous on board	256KB	32K32 x 2pcs	8K8, 16K8 or 32K8 x 1pc
Synchronous module	256KB	32K32 x 2pcs	16K8 or 32K8 x 1pc

※ Upgrade Procedure :

For upgrading your Sync. SRAM from 256KB to 512KB by using COAST Module, if the KIT-256 has TAG SRAM already, you should remove the Tag RAM Chip (U24) firstly, then plug-in the KIT-256 module. If the KIT-256 has no TAG SRAM, and the on board TAG SRAM is 16K8 or 32K8, then just plug-in the KIT-256 module. (If the on board TAG SRAM is 8K8, then you should change it to 16K8 or 32K8 firstly.)

You must use KIT-256 for upgrading your system to 512KB Sync. SRAM , please contact your system dealer about its information .

There are no jumper setting and BIOS value adjustments for upgrading the SRAM size.

2-4 OTHR JUMPERS AND CONNECTORS

The location of following jumpers and connectors please refer to page A and B.

Connector	Function	Remark
J2	IDE LED	Pin 1 is '+' **
J3	Turbo LED	Pin 1 is '+' **
J5	Reset	Hardware Reset Switch
J6	KEY-LOCK	KeyLock Connector
J7	SPK	PC Speaker Connector
J8	FAN	+12V Cooling Fan Connector, Pin 1 is '+' *

※ Turbo Switch is fixed to open mode for the TURBO function.

* If you plugged wrong side, the cooling fan should be failed.

** If you plugged wrong side, the light will be weaker, but the IDE devices are still workable.

Jumper	Function	Remark
JP5	ATBUS CLK	1-2: PCI CLK/3 for external CPU clock 50MHz 2-3: PCI CLK/4 for external CPU clock 60, 66MHz
JP8	CMOS	open: Normal * close: Clear CMOS

* is default setting

* * is factory default setting (fixed)

Connector	Function	Remark
CN1	PS/2 Mouse	Optional
CN2	COM 1	Serial Port Cable Connector
CN3	COM 2	Serial Port Cable Connector
CN4	FDC	Floppy Disk Drive Cable Connector
CN5	LPT	Parallel Port Cable Connector
CN7	IDE1 Primary	1st IDE Drive Cable Connector
CN6	IDE2 Secondary	2nd IDE Drive Cable Connector

※ When you plug a cable into the above I/O connectors, you should let the pin 1 edge of the cable is at the pin 1 end of the connector.

2-5 IDE DRIVER INSTALLATION

The IDE driver installation procedure is printed on the label of diskette as following :

Setup for DOS/Windows :

1. Starting MS-Windows 3.1 (or 3.11)
2. Select "RUN", then type "A:\drivers\setup.exe"
3. Exit MS-Windows, turn power off; then turn power on.

CHAPTER 3 AWARD BIOS SETUP

This chapter explains the system BIOS setup, and how to update new BIOS. All BIOS screens showed on following pages are default values, your system dealer will set up these values according to your demand of computer.

ATC-1000 uses Flash ROM (+5V) to make BIOS easier to be updated by the floppy disk-based program. and to committe Microsoft Windows 95 plug & play feature.

※ JP8 Setting is for Update System BIOS

open	NORMAL *
close	CLEAR CMOS

* is default setting

3-1 UPDATE BIOS PROCEDURES

If the BIOS should be updated, you can get the new BIOS diskette from your system dealer. The BIOS diskette includes 3 files they are "awdfash.exe" an execution file, it's BIOS update utility; the new version BIOS file with a file name about its version number; and "readme.txt" a text readme file. The update procedures are as following:

1. Boot from hard disk drive C, then change to floppy A (or B).
2. Insert the updated diskette to drive A (or B), press "awdfash" to run the BIOS update utility.
3. Press new BIOS file name to install the new BIOS.
4. Press 'N' when the screen shows the message : " Do you want to save BIOS (Y/N) ?".
5. Press 'Y' when the screen shows the message : " Are you sure to program (Y/N) ?". Then the BIOS updated is finished.
6. Exit the utility and turn off the power, set JP8 to 'close' to clear the CMOS. After 10 seconds, set JP8 to 'open' (remove

the jumper cap), become the normal status.

7. Turn the power on and test your system workable or not.
8. If your installation fail, re-install the new BIOS again as above procedures. Or call your system dealer for help.

3-2 AWARD SYSTEM BIOS CONFIGURATION SETUP

The following pages explain how to set up the system configuration (CMOS) under the AWARD BIOS. The SETUP program is stored in the Read-Only-Memory (ROM) on the mainboard. To do the SETUP procedure, press the key when the system is booting up. The following main menu will appear. Please select " STANDARD CMOS SETUP" to enter the next screen.

ROM PCI/ISA BIOS (2A59CA29)
CMOS SETUP UTILITY
AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP

POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type	

The section on the bottom of the main menu explains how to control this screen. The other one section displays the items highlighted in the list.

This screen records, some basic hardware information, set the system clock and error handling. These records can be lost or corrupted if the on-board battery is fail or weak.

ROM PCI/ISA BIOS (2A59CA29)
 CMOS SETUP UTILITY
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	

LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type	

ROM PCI/ISA BIOS (2A59CA29)
STANDARD CMOS SETUP
AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Sat, Jan 6 1996	
Time(hh:mm:ss) : 13 : 37 : 14	
HARD DISKS	TYPE SIZE CYLS HEAD PRECOMP LANDZ SECTOR MODE
Primary Master	: AUTO 0 0 0 0
0 0	AUTO
Primary Slave	: AUTO 0 0 0 0
0 0	AUTO
Secondary Master	: AUTO 0 0 0 0
0 0	AUTO
Secondary Slave	: AUTO 0 0 0 0
0 0	AUTO
Drive A : 1.44M, 3.5 in.	Base Memory : 640K
Drive B : None	Extended memory : 64512K
Video : EGA/VGA	Other Memory : 384K

Halt On: All Errors	Total Memory : 65536K
ESC : Quit	↑↓→←:Select Item PU/PD/+/-
: Modify	
F1 : Help	(Shift) F2 : Change Color

This screen is a list of system configuration options. Some of them are defaults required by the mainboard's design, others depend on the features of your system.

ROM PCI/ISA BIOS (2A59CA29)
 CMOS SETUP UTILITY
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Virus, Protection, Boot Sequence	

ROM PCI/ISA BIOS(2A59CA29)
 BIOS FEATURES SETUP
 AWARD SOFTWARE , INC.

Virus Warning	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000-CBFFF Shadow	: Disabled
External Cache	: Enabled	CC000-CFFFF Shadow	: Disabled
Quick Power On Self Test	: Disabled	D0000-D3FFF Shadow	: Disabled
Boot Sequence	: A, C	D4000-D7FFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	D8000-DBFFF Shadow	: Disabled
Boot Up Floppy Seek	: Enabled	DC000-DFFFF Shadow	: Disabled
Boot Up NumLock Status	: On		
Boot Up System Speed	: High		

Gate A20 Option	: Fast	
Memory Parity Check	: Enabled	
Typematic Rate Setting	: Disabled	
Typematic Rate(Chars/Sec)	: 6	Esc : Quit ↑↓→←:Select Item
Typematic Delay(Msec)	: 250	F1 : Help PU/PD/+/- : Modify
Security Option	: Setup	F5 : Old Values (SHIFT)F2 : Color
PS/2 mouse function control	: Enabled	F6 : Load BIOS Defaults
PCI/VGA Palette Snoop	: Disabled	F7 : Load Setup Defaults
OS/2 select for DRAM>64MB	: Non-OS2	

This screen controls the setting for the chipset on the mainboard.

ROM PCI/ISA BIOS (2A59CA29)
 CMOS SETUP UTILITY
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
AT Clock, DRAM Timings,	

ROM PCI/ISA BIOS (2A59CA29)
 CHIPSET FEATURES SETUP
 AWARD SOFTWARE, INC.

DRAM RAS# Precharge Time : 4	PCI Concurrency : Enabled
DRAM R/W Leadoff Timing : 8/6*	PCI Streaming : Enabled
DRAM RAS To CAS Delay : 3*	PCI Bursting : Enabled
DRAM Read Burst Timing : x2222*	Onboard FDC Control : Enabled
DRAM Write Burst Timing : x3333*	Onboard Serial Port 1 : COM1/3F8
System BIOS Cacheable : Disabled	Onboard Serial Port 2 : COM2/2F8
Video BIOS Cacheable : Disabled	Onboard Parallel Port : 378H/IRQ7
8-bit I/O Recovery Time : 3*	Onboard Parallel Mode : EPP/SPP
16-bit I/O Recovery Time : 2*	
Memory Hole At 15M-16M : Disabled	Parallel Port EPP Type : EPP1.9
IDE HDD Block Mode : Enabled	
IDE 32-bit Transfer Mode : Enabled	
IDE Primary Master PIO : Auto	
IDE Primary Slave PIO : Auto	
IDE Secondary Master PIO : Auto	Esc: Quit :Select Item
IDE Secondary Slave PIO : Auto	F1 : Help PU/PD/+/-:Modify
On-Chip Primary PCI IDE : Enabled	F5 : Old Values (Shift)F2 :Color
On-Chip Secondary PCI IDE : Enabled	F6 :Load BIOS Defaults
PCI Slot IDE 2nd Channel : Enabled	F7 :Load Setup Defaults

This screen controls the 'green' features of this mainboard.

ROM PCI/ISA BIOS (2A59CA29)

CMOS SETUP UTILITY

AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	

LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Sleep Timer, Suspend Timer,	

ROM PCI/ISA BIOS (2A59CA29)
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.

Power Management	: Disabled	IRQ3 (COM 2)	: OFF
PM Control by APM	: Yes	IRQ4 (COM 1)	: OFF
Video Off Method	: V/H SYNC	IRQ5 (LPT 2)	: OFF
	+Blank	IRQ6 (Floppy Disk)	: OFF
		IRQ7 (LPT 1)	: OFF
Doze Mode	: Disabled	IRQ8 (RTC Alarm)	: OFF
Standby Mode	: Disabled	IRQ9 (IRQ2 Redir)	: OFF
Suspend Mode	: Disabled	IRQ10 (Reserved)	: OFF
HDD Power Down	: Disabled	IRQ11 (Reserved)	: OFF
		IRQ12 (PS/2 Mouse)	: OFF
IRQ3 (Wake-Up Event)	: OFF	IRQ13 (Coprocessor)	: OFF
IRQ4 (Wake-Up Event)	: OFF	IRQ14 (Hard Disk)	: OFF
IRQ8 (Wake-Up Event)	: OFF	IRQ15 (Reserved)	: OFF
IRQ12(Wake-Up Event)	: OFF		
Power Down Activities		Esc: Quit ↑↓→← :Select Item	
COM Ports Accessed	: OFF	F1 : Help	PU/PD/+/- : Modify
LPT Ports Accessed	: OFF	F5 : Old Values	(Shift) F2: Color
Drive Ports Accessed	: OFF	F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

This screen configures the PCI Bus slots.

ROM PCI/ISA BIOS (2A59CA29)
 CMOS SETUP UTILITY
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
IRQ Settings, Latency Timers,	

ROM PCI/ISA BIOS (2A59CA29)
 PCI CONFIGURATION SETUP
 AWARD SOFTWARE, INC.

PnP BIOS Auto-Config : Disabled	
Slot 1 Using INT# : AUTO	
Slot 2 Using INT# : AUTO	
Slot 3 Using INT# : AUTO	
Slot 4 Using INT# : AUTO	
1st Available IRQ : 10	
2nd Available IRQ : 11	
3rd Available IRQ : 9	
4th Available IRQ : 5	
PCI IRQ Actived By : Level	
PCI IDE IRQ Map To : PCI-AUTO	
Primary IDE INT# : A	Esc: Quit ↑↓→← :Select Item
Secondary IDE INT# : B	F1 : Help PU/PD/+/- : Modify
	F5 : Old Values (Shift) F2: Color

F6 : Load BIOS Defaults
F7 : Load Setup Defaults

The last step is 'save and exit'. If you select this item and press 'Y', then these records will be saved in the CMOS memory on the mainboard. It will be checked every time when you turn your computer on.

ROM PCI/ISA BIOS(2A59CA29)
 CMOS SETUP UTILITY
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type	

ROM PCI/ISA BIOS (2A59CA29)
 CMOS SETUP UTILITY
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	SAVE to CMOS and EXIT (Y/N):Y
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Auto-Configure HDD: Sector, Cylinder, Head	

※ Control Key Description ※

UP ARROW	↑	Move to previous item
DOWN ARROW	↓	Move to next item
LEFT ARROW	←	Move to the item in the left hand
RIGHT ARROW	→	Move to the item in the right hand
Esc KEY	Esc	Main Menu : Quit and not save changes Setup menu : Exit current page and return to main menu
PgUp KEY		Increase the numeric value or make changes
PgDn KEY		Decrease the numeric value or make changes

F1 KEY	Help	General help
F2 KEY	< Shift > +F2	Change color from total 16 colors
F5 KEY	Old Value	Restore the pervious CMOS value from CMOS
F6 KEY	Load BIOS default	Load the default CMOS value from BIOS default table
F7 KEY	Load setup default	Load Setup default
F10 KEY	Save & Exit Setup	Save all the CMOS changes and Exit setup, only for Main Menu

APPENDIX A

※※TECHNICAL SUPPORT REQUEST FORM※※

If the mainboard doesn't function properly, please complete the following information and return it to your system dealer. If the further information is needed, please attach this separating sheets.

Model No : ATC-1000 Date of Purchase : _____

Serial No : _____

HARDWARE :

	BRAND	MODEL	SPEED	Q'TY
CPU				
Co-processor				
SIM Module				
TAG SRAM				
Sync. Cache				

Chipset Brand : _____ Model : _____
 Cache Memory : _____KB SIMM : _____MB (__ EDO, __FastPage)
 Bus Interface : PCI x _____ , ISA x _____
 Hard Disk Interface Controller : __ __ IDE, __ __ SCSI
 Hard Disk Brand : _____, Model : _____, Capacity : _____
 Display Controller Brand : _____, Model : _____
 Controller Chip Brand : _____, Model : _____

SOFTWARE:

SYSTEM BIOS: ____ <A>AMI, <W>AWARD
 Version _____ Date Code _____
 Keyboard BIOS: Brand _____

Other Add-on Cards Information:

Add-on Card	Bus Interface	Model	Remark

Error Description :