

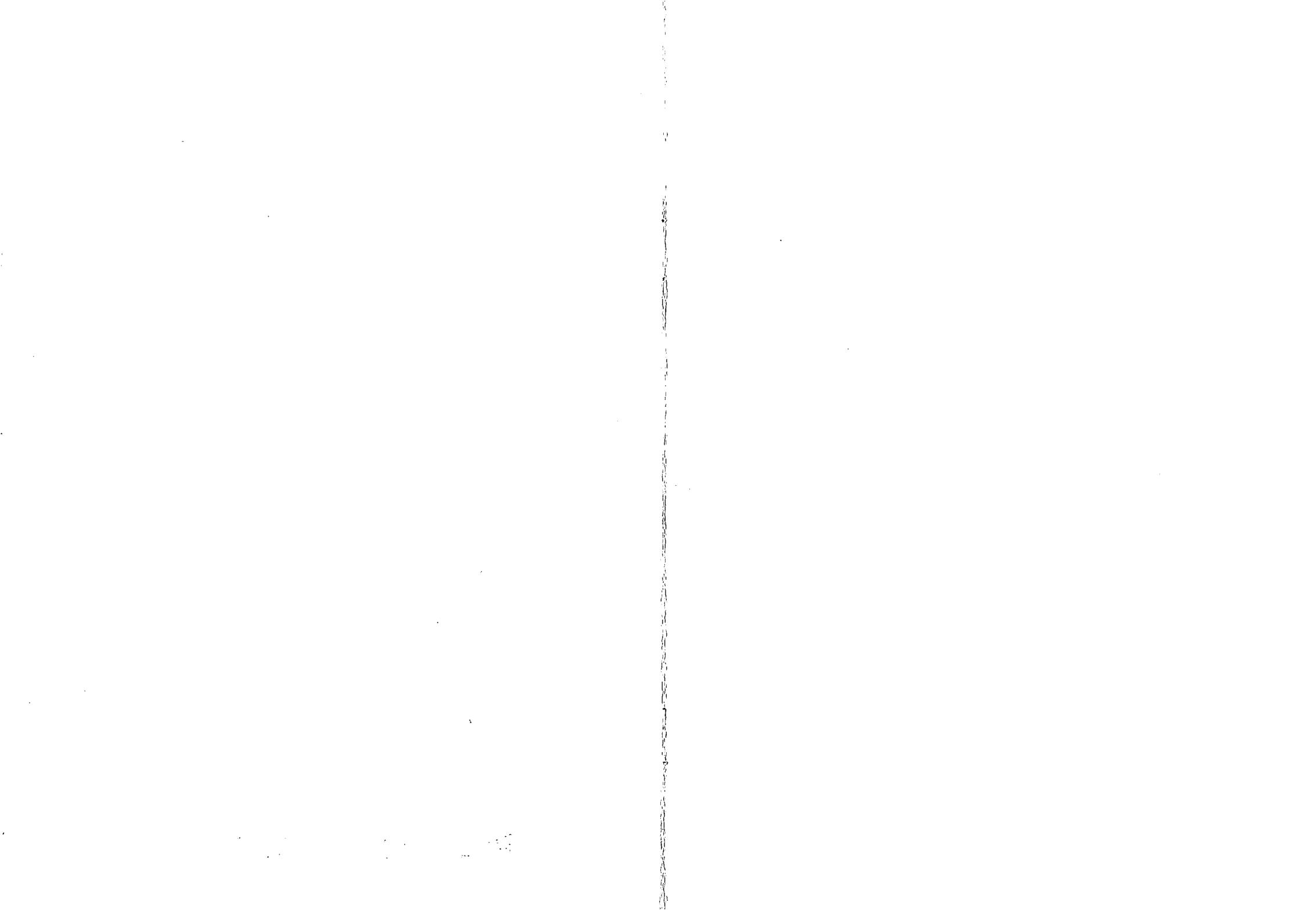
486 ISA-BUS

Main board

User's Manual

for 486DX/SX

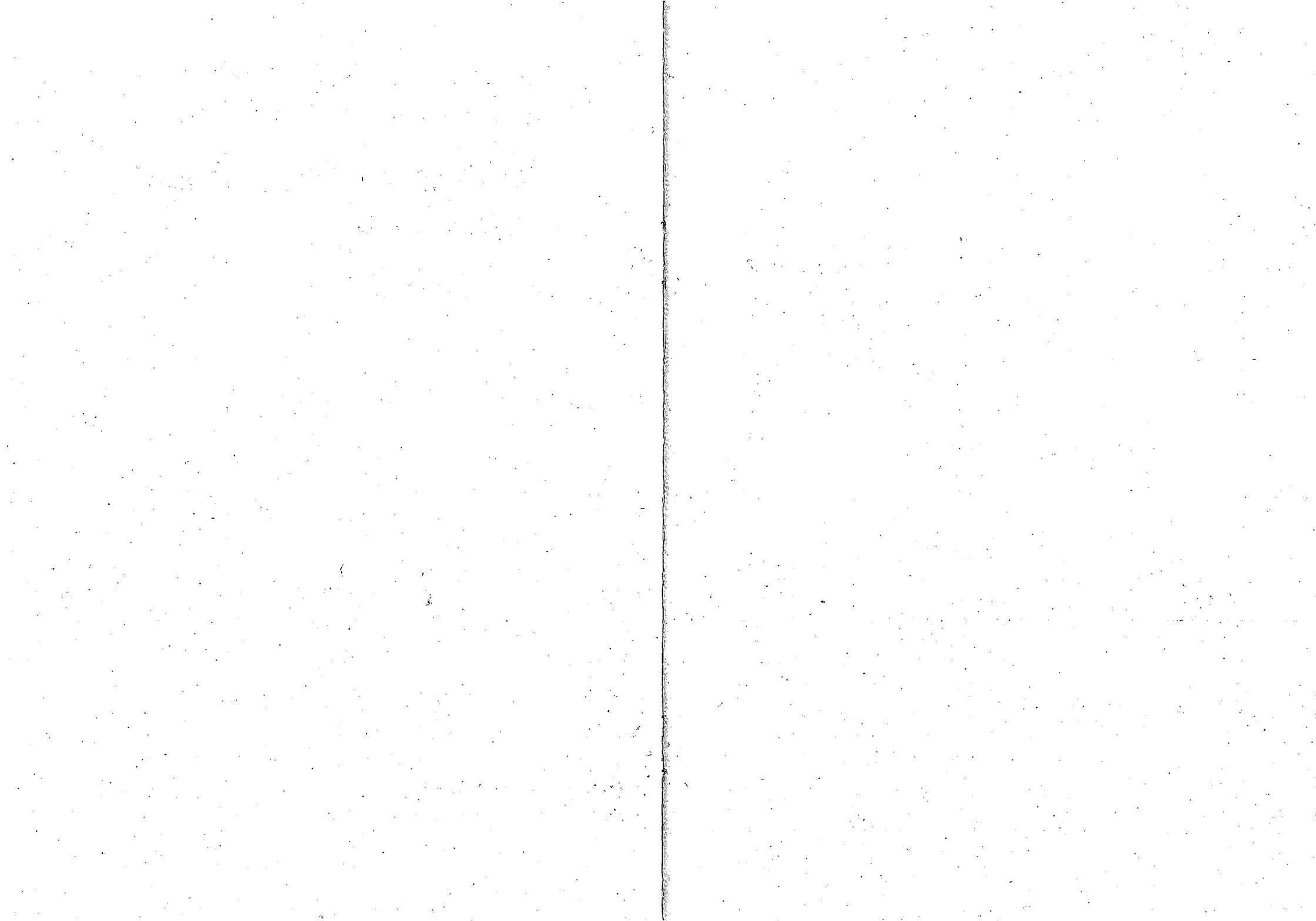
WE SPEED YOUR WORLD



MB 459

***UMC 486 SUPER DEEP
GREEN PC***

470-024591990



C-4 RTC & CMOS RAM MAP

RTC & CMOS:

00	Seconds
01	Second alarm
02	Minutes
03	Minutes alarm
04	Hours
05	Hours alarm
06	Day of week
07	Day of month
08	Month
09	Year
0A	Status register A
0B	Status register B
0C	Status register C
0D	Status register D
0E	Diagnostic status byte
0F	Shutdown byte
10	FLOPPY DISK drive type byte
11	Reserve
12	HARD DISK type byte
13	Reserve
14	Equipment type
15	Base memory low byte
16	Base memory high byte
17	Extension memory low byte
18	Extension memory high byte
19-2D	Reserve
2E-2F	2-byte, COMS RAM chechsum
30	Reserve for extension memory low byte
31	Reserve for extension memory high byte
32	DATE CENTURY byte
33	INFORMATION FLAG
34-3F	Reserve
40-7F	Reserve for CHIPSET SETTING DATA

USER'S MANUAL

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C-3 : INTERRUPT MAP

- NMI: Parity check error
- IRQ(H/W): 0 System TIMER interrupt from TIMER-0
- 1 KEYBOARD output buffer full
- 2 Cascade for IRQ 8-15
- 3 SERIAL port 2
- 4 SERIAL port 1
- 5 PARALLEL port 2
- 6 FLOPPY DISK adapter
- 7 PARALLEL port 1
- 8 RTC clock
- 9 Available
- 10 Available
- 11 Available
- 12 Available
- 13 MATH coprocessor
- 14 HARD DISK adapter
- 15 Available

Chapter 1

Features

CPU TYPE :

Intel 486SX,486DX,486DX2, and
S-series SMM CPU
AMD 5V 486DX,DX2,DXL,DXL2
and AMD 3V DX2/DX4 CPU
Cyrix M6, M7
UMC 486 CPU

Cache memory : 128KB, 256KB and 512KB
2nd CACHE memory selectable Write-
back direct mapped CACHE operation.
Supports SRAM type 32Kx8,64Kx8 and
128Kx8

Main Memory : 64MB max on board Using
256K, 1M, 4M and 16M SIMM DRAM
Supports PS2/72pin SIM module and
auto - banking of every DRAM banks

I/O Slot : Six 16-bit ISA Slots

BIOS : Award, AMI or other

Dimension : 25 cm x 22 cm

CPU Vcc Input : Supports 5V and 3.45V, 3.3V
Voltage (But Q3 regulator and some
parts must be installed)

From	To	Description
360	36F	NETWORK ports.
378	37F	PARALLEL ports-1.
3B0	3BF	MONOCHROME & PRINTER adapter.
3C0	3CF	EGA adapter.
3D0	3DF	CGA adapter
3F0	3F7	FLOPPY DISK controller.
3F8	3FF	SERIAL port-1.

C-2 : TIMER & DMA CHANNELS MAP

TIMER MAP:

TIMER Channel-0 system timer interrupt
TIMER Channel-1 DRAM REFRESH request
TIMER Channel-2 speaker tone generator

DMA CHANNELS:

DMA Channel-0 Available
DMA Channel-1 IBM SDLC
DMA Channel-2 FLOPPY DISK adapter
DMA Channel-3 Available
DMA Channel-4 Cascade for DMA controller 1
DMA Channel-5 Available
DMA Channel-6 Available
DMA Channel-7 Available

Green Function

Supports the EPA Energy Star PC specification with Deep Green system Design. It supports the advanced SMM CPU. Accommodated with UMC 486DX/SX U5S- series CPU , system performs stop clock mode. The functions for power saving options are:

. HDD Standby Timer :

The Hard disk entering power down mode.

. Display Power Down :

The display screen will be closed.

. System power down mode :

Full-on : System runs in full speed CPU clock

Doze : Sytem runs in lower CPU clock

Standby : System scales-down the CPU clock

Suspend : With SMM CPU, performs stop clock in suspend mode

Pressing any Key or moving Mouse to Wake up the system.

APPENDIX C : AT TECHNICAL INFORMATION

C-1 : I/O & MEMORY MAP

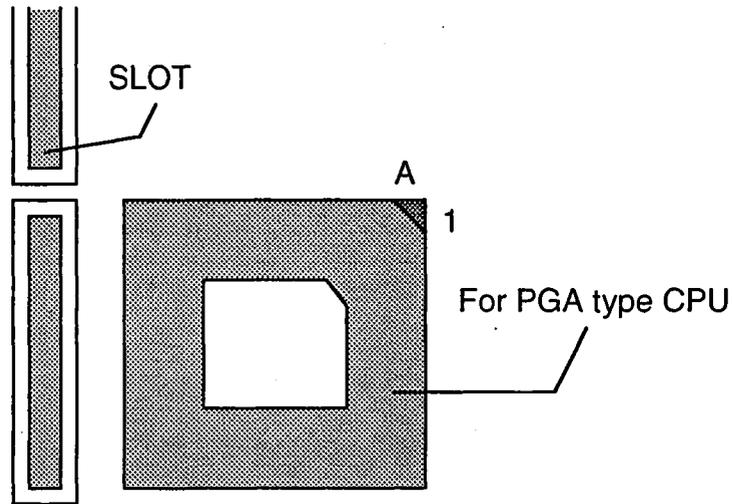
MEMORY MAP :

[0000000-009FFFFF]	System memory used by DOS and application program.
[00A0000-00BFFFFF]	Display buffer memory for VGA/EGA/CGA/ Monochrome adapter.
[00C0000-00DFFFFF]	Reserved for I/O device BIOS ROM or RAM buffer.
[00E0000-00EFFFFF]	Reserved for BASIC ROM.
[00F0000-00FFFFFF]	System BIOS ROM.
[0100000-1FFFFFFF]	System extension memory.

I/O MAP :

From	To	Description
001	01F	DMA controller.(MASTER)
020	021	INTERRUPT controller.(MASTER)
022	023	CHIPSET control registers I/O ports.
040	05F	TIMER control registers.
060	06F	KEYBOARD interface controller.(8042)
070	07F	RTC ports & CMOS I/O ports.
080	09F	DMA register.
0A0	0BF	INTERRUPT controller.(SLAVE)
0C0	0DF	DMA controller.(SLAVE)
0F0	0FF	MATH COPROCESSOR
1F0	1F8	HARD DISK controller
278	27F	PARALLEL port-2
2B0	2DF	GRAPHICS adapter controller.
2F8	2FF	SERIAL port-2

INSTALLING CPU :

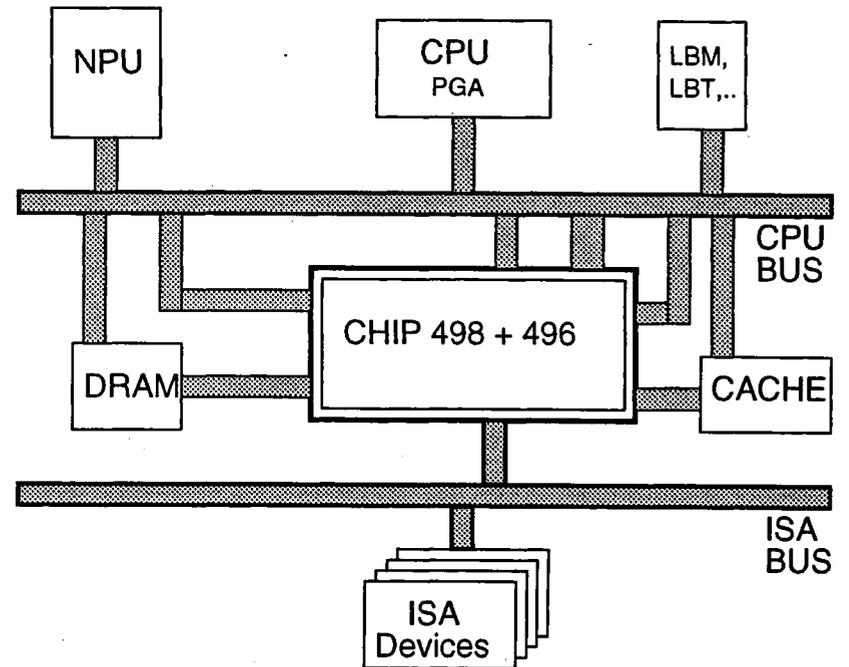


The system board is specifically designed to support Intel, AMD, Cyrix and UMC CPU as below :

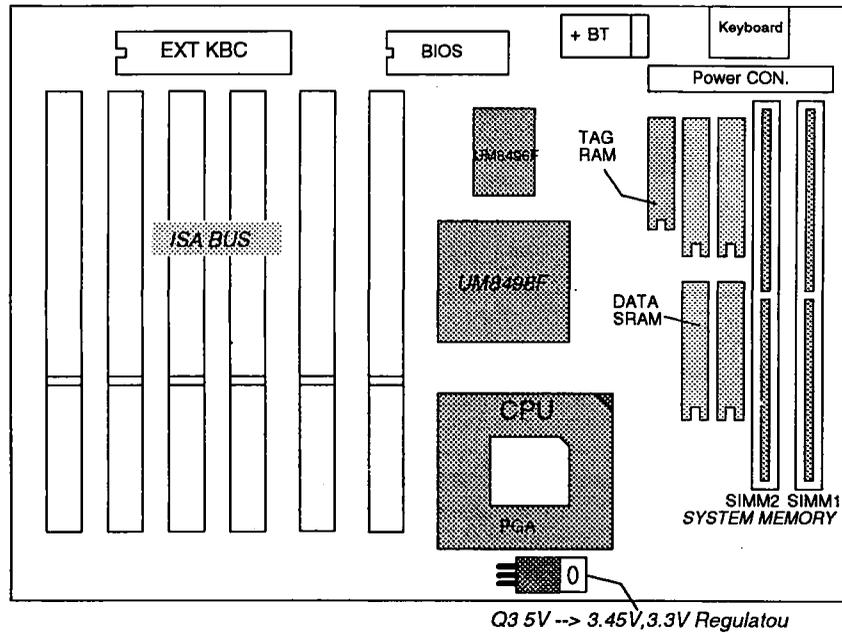
- Intel 486SX, 486DX, 486DX2 and s-series CPU
- AMD 486DX, DX2/DX4
- Cyrix M6, M7
- UMC 486 CPU

Note : Place the CPU into the socket. Make sure pin 1 on the CPU lines up with pin 1 on the socket.

System Block Diagram



System Board Layout



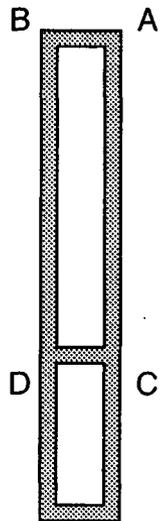
B1 : GND	C1 : SBHE#	D1 : MEMCS16#
B2 : SYSRST	C2 : SA23	D2 : IOCS16#
B3 : Vcc	C3 : SA22	D3 : IRQ10
B4 : IRQ9	C4 : SA21	D4 : IRQ11
B5 : - 5v	C5 : SA20	D5 : IRQ12
B6 : DRQ2	C6 : SA19	D6 : IRQ15
B7 : - 12v	C7 : SA18	D7 : IRQ14
B8 : WS0#	C8 : SA17	D8 : DACK0#
B9 : + 12v	C9 : MEMR#	D9 : DRQ0
B10: GND	C10: MEMW#	D10: DACK5#
B11: SMEMW#	C11: SD8	D11: DRQ5
B12: SMEMR#	C12: SD9	D12: DACK6#
B13: IOW#	C13: SD10	D13: DRQ6
B14: IOR#	C14: SD11	D14: DACK7#
B15: DACK3#	C15: SD12	D15: DRQ7
B16: DRQ3	C16: SD13	D16: Vcc
B17: DACK1#	C17: SD14	D17: MASTER#
B18: DRQ1	C18: SD15	D18: GND
B19: RFSH#		
B20: SYSCLK		
B21: IRQ7		
B22: IRQ6		
B23: IRQ5		
B24: IRQ4		
B25: IRQ3		
B26: DACK2#		
B27: TC		
B28: BALE		
B29: Vcc		
B30: OSC		
B31: GND		

Chapter 4

APPENDIX

APPENDIX A :

ISA SLOT PIN OUT SPECIFICATIONS :



A1 : IOCHCK#	A17: SA14
A2 : SD7	A18: SA13
A3 : SD6	A19: SA12
A4 : SD5	A20: SA11
A5 : SD4	A21: SA10
A6 : SD3	A22: SA9
A7 : SD2	A23: SA8
A8 : SD1	A24: SA7
A9 : SD0	A25: SA6
A10: IOCHRDY	A26: SA5
A11: BAEN	A27: SA4
A12: SA19	A28: SA3
A13: SA18	A29: SA2
A14: SA17	A30: SA1
A15: SA16	A31: SA0
A16: SA15	

Chapter 2

Jumper setting and connector

2-1 CPU TYPE SELECT:

	JP13	JP14	JP15	JP16	JP17	JP18
486SX	2 - 3	OPEN	OPEN	OPEN	OPEN	2 - 3
486DX/DX2	2 - 3	OPEN	OPEN	1 - 2	OPEN	1 - 2 3 - 4
486DX-SL	1 - 2	1 - 2	5 - 6	1 - 2	1 - 2 3 - 4	1 - 2 3 - 4
AMD486DXL (5V CPU)	2 - 3	2 - 3	1 - 2	1 - 2 3 - 4	OPEN	1 - 2 3 - 4
UMC486	2 - 3	2 - 3	1 - 2	3 - 4	OPEN	2 - 3
M6 Cyrix	1 - 2 3 - 4 5 - 6 #	1 - 2 3 - 4 5 - 6	2 - 3 4 - 5	OPEN	2 - 3 4 - 5	2 - 3
M7 Cyrix	1 - 2 3 - 4 5 - 6 #	1 - 2 3 - 4 5 - 6	2 - 3 4 - 5	1 - 2	2 - 3	1 - 2 3 - 4

MARK '#' IS FOR DOUBLE CLOCK

P24C : Jumper setting is same as 486DX-SL

JP19 : OPEN : --> INT. CLK x 3

1 - 2 : --> x 2.5

2 - 3 : --> x 2

Others type CPU this (JP19) is open

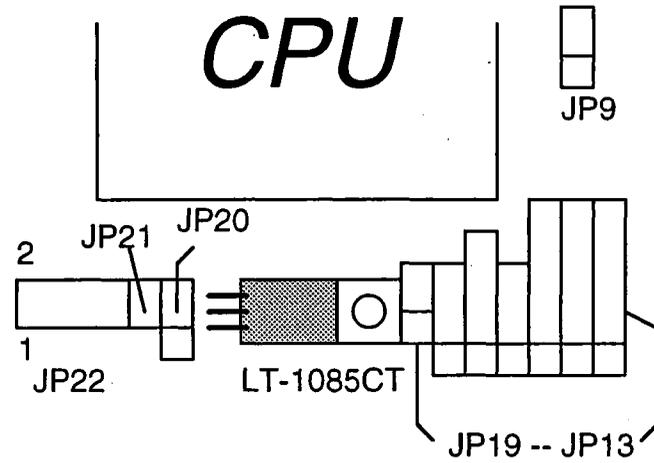
AMD 3V CPU : Jumper setting is same as 486DX

JP9: 1 - 2 : --> x 3(DX4)

2 - 3 : --> x 2(DX2)

Others type CPU this (JP9) is open

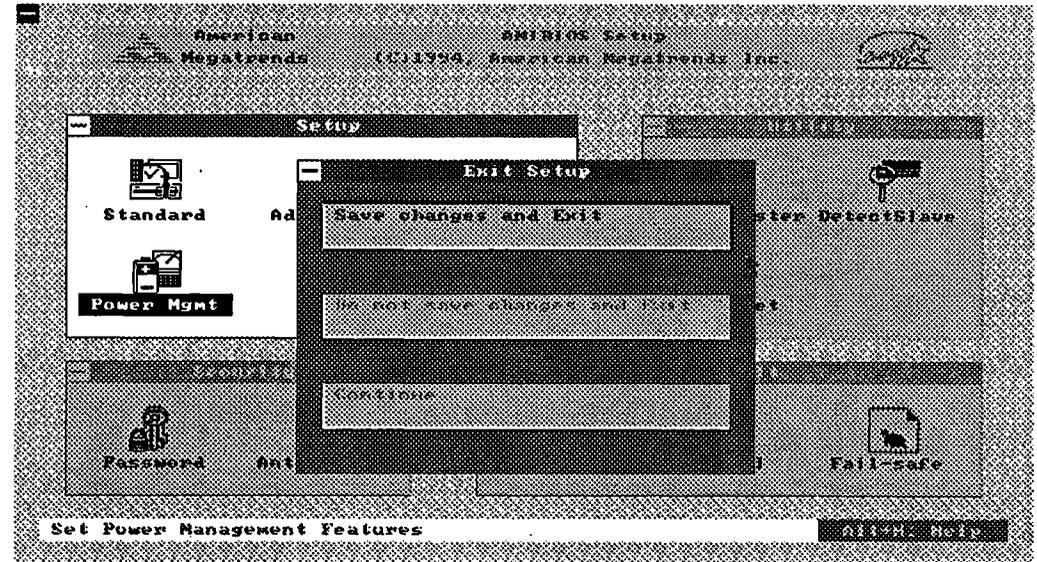
Jumper Location :



2-2 CACHE SIZE SETTING :

	512KB	256KB	128KB
JP4	ON	ON	ON
JP5	ON	ON	ON
JP6	ON	ON	OFF
JP7	ON	OFF	OFF
JP8	1 - 2	1 - 2	1 - 2
SRAM TYPE	128K*8	64K*8	32K*8

3 - 10 Exit Setup



POWER MANAGEMENT Timer Selection :

Disabled : HDD Standby Timer : Disabled
Standby Timer Value : Disabled
Inactive Timer Value : Disabled

Enabled : IDE Power Control : Enabled
Standby Timer Value :
0.5 -- 512 Min
Inactive Timer Value :
2 -- 512 Min

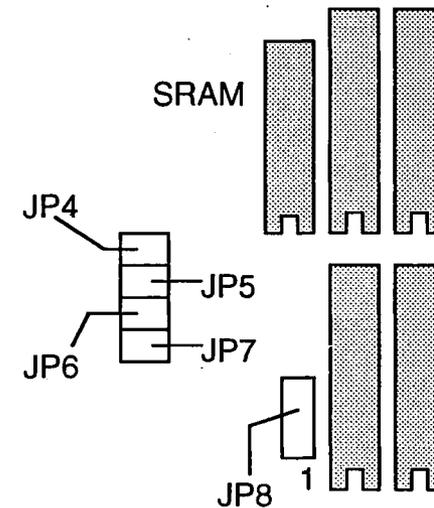
Control Item Select :

CPU CLK : For CPU input Clock Control
1/4 CLKI --> Slow Down CPU to Clock/4
1/8 CLKI --> Slow Down CPU to Clock/8
VGA : Disabled --> Display screen always open
Normal --> The display screen will be
closed When inactive mode

Wake up the system:

*Pressing any Key or moving Mouse to Wake up
the system.*

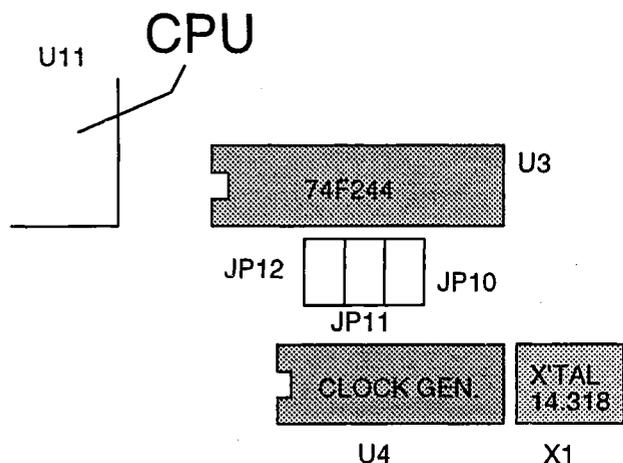
SRAM Jumper location :



2 - 3 CPU CLOCK SETTING :

	JP10	JP11	JP12
25MHz	ON	OFF	OFF
33MHz	ON	ON	ON
40MHz	ON	ON	OFF
50MHz	OFF	OFF	ON

Jumper Location :

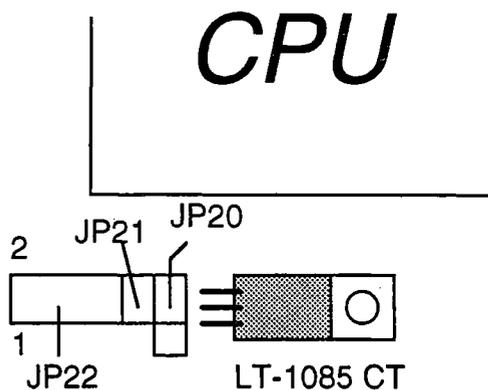


2 - 4 CPU POWER SETTING

Q3 for 5V --> 3.3V, 3.45V regulator, LT 1085CT must be installed

	5V	3.45V	3.3V
JP22	1-2 3-4	5-6 7-8	5-6 7-8
JP21	OFF	ON	ON
JP20	OFF	2-3	1-2

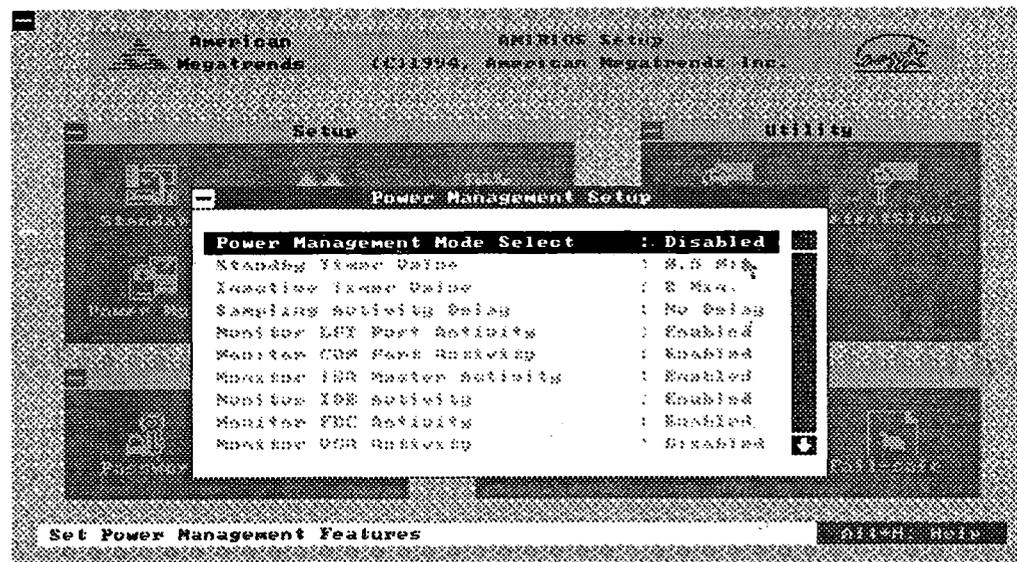
Jumper Location :



3 - 9 Power Mgmt

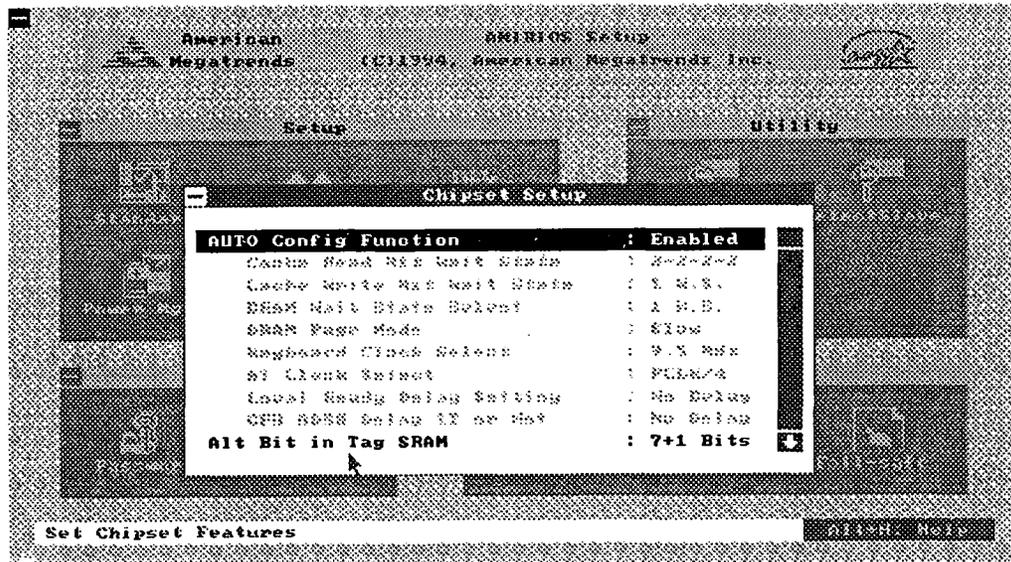
Supporting the EPA Energy Star PC specification with Deep Green system Design. It supports the advanced SMM CPU. Accommodated with Intel S series CPU or AMD DXL, DXL2 CPU, system performs stop clock mode. The function for power savings options are:

- . IDE Power Control :
The Hard disk entering power down mode.
- . VGA Power Control :
The display screen will be closed.
- . System power down mode :
Full-on : System runs in full speed CPU clock
Standby : System runs in lower CPU clock
Suspend : With SMM CPU, performs stop clock in suspend mode



3 - 8 Chipset Setup

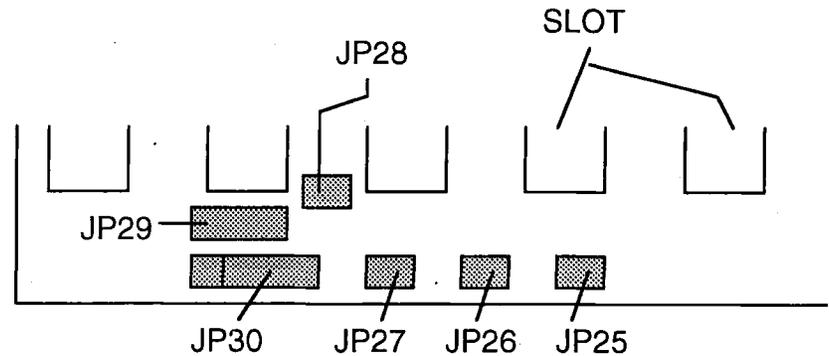
The Chipset Features Setup is entirely chipset specific portion and requires full knowledge about the detail definition of UMC chipset . Each option is tightly corresponding with the hardware structure. Without our engineering change notice, we strongly recommend "don't change any contents in advanced chipset setup menu".



2 - 5 OTHER ON BOARD JUMPER SETTING

- P1 : Power Connector
- KB1 : Keyboard Connector
- JP25 : Hardware Reset
- JP26 : Turbo Switch
- JP27 : Turbo LED
- JP28 : Normal close for internal KBC. keylock
- JP29 : Speaker
- JP30 : Power LED and Key Lock
- JP1 : For on board battery --> Normal 2 - 3
For extend battery --> Pin 1 "+", Pin 4 "-"

Jumper Location :



2 - 6 DRAM INSTALLATION

The memory is capable of supporting a minimum 1 Megabyte of memory up to total 64 megabytes memory. The 256KB / 1MB / 4MB/16MB SIMM memory are available.

The mainboard allows you to install and expand the system memory via on board two PS2/72-pin SIMM sockets. It supports fast-page mode DRAM SIMM memory, with a minimum 70ns RAS (Row Address Strobe) access time. There are four banks of memory (Bank0/1/2/3), you don't care which one is Bank0 because the BIOS will automatically test which one is Bank0.

DRAM TYPE SUPPORT :

72-pin DRAM single bank or 72-pin DRAM double bank

2 - 7 CACHE MEMORY INSTALL

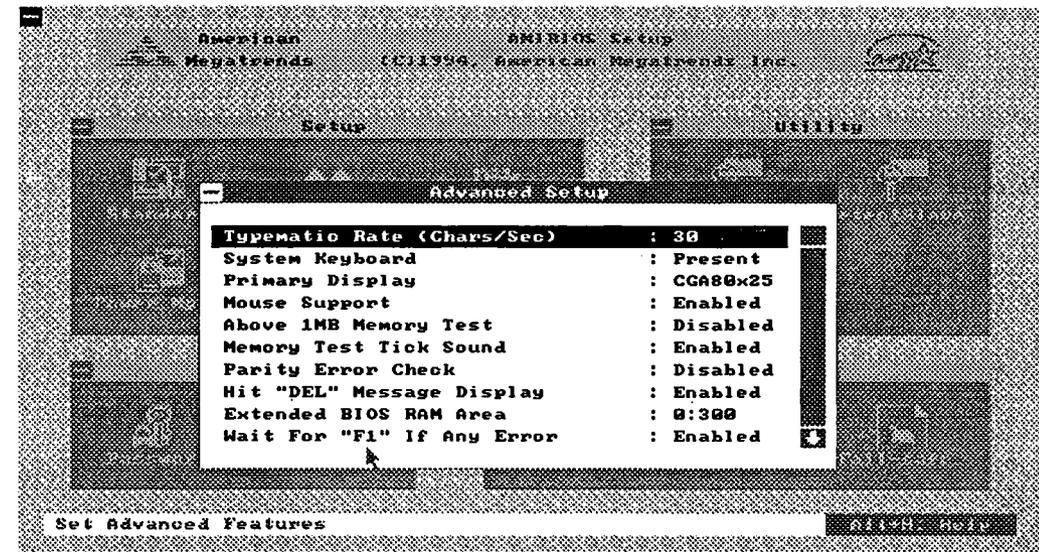
This mainboard supports Cache SRAM configurations: 64KB,128KB,256KB and 512KB.

Before you can consider altering the CACHE memory configuration on your main-board, please read this section as below:

	U7 TAG SRAM	U1,U2,U5,U6 DATA SRAM
128KB	32KB*8	32KB*8
256KB	32KB*8	64KB*8
512KB	32KB*8	128KB*8

3 - 7 Advance Setup

If you don't really understand the meanings of each item, please don't change the default values. The default setting maybe different from those shown below:



3 - 6 Standard Setup



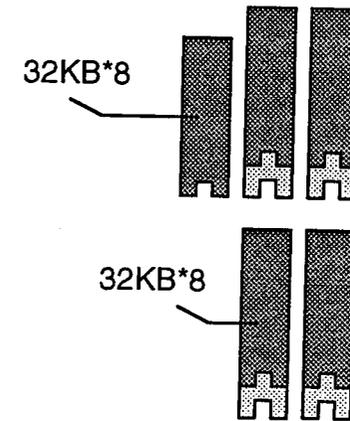
Keystroke/Mouse Convention

Keystroke/Mouse Convention

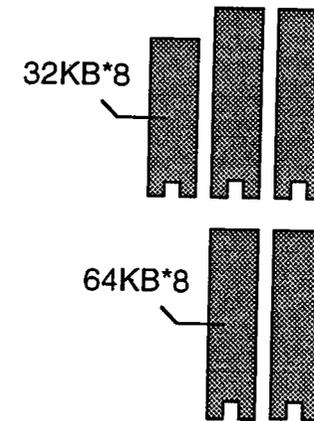
- Mouse click : Point/Select item
- Tab : Select window
- Enter : Select item
- Esc : Return to previous Level
- Alt+H : Help
- Alt+Space : Global exit
- Cursor Keys : Usual meaning

SRAM Location :

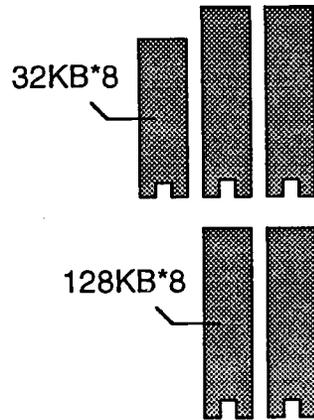
128KB Cache size :



256KB Cache size :



512KB Cache size :

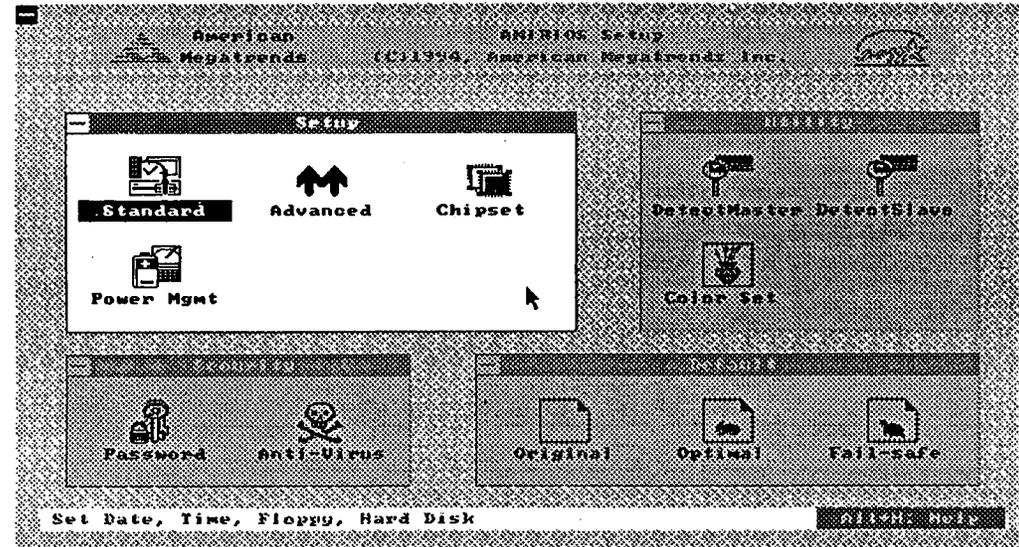


AMI BIOS SETUP

When the system is being powered on or reset, the BIOS will display a copyright message on the first line of the screen, then the BIOS will perform the diagnostics and initialization. After all of the above tests have been passed, the message

"Hit DEL of you want to run SETUP"

is displayed. If the [DEL] key is pressed, the screen will be cleared and then the following message will be showed:



3-5 Standard type of hard disk

Type	Size	Cylinders	Heads	Sec	W-Pcomp	L-Zone
1	10MB	306	4	17	128	305
2	20MB	615	4	17	300	615
3	30MB	615	6	17	300	615
4	62MB	940	8	17	512	940
5	46MB	940	6	17	512	940
6	20MB	615	4	17	None	615
7	30MB	462	8	17	256	511
8	30MB	733	5	17	None	733
9	112MB	900	15	17	None	901
10	20MB	820	3	17	None	820
11	35MB	855	5	17	None	855
12	49MB	855	7	17	None	855
13	20MB	306	8	17	128	319
14	42MB	733	7	17	None	733
15	Reserved					
16	20MB	612	4	17	0	663
17	40MB	977	5	17	300	977
18	56MB	977	7	17	None	977
19	59MB	1024	7	17	512	1023
20	30MB	733	5	17	300	732
21	42MB	733	7	17	300	732
22	30MB	306	5	17	300	733
23	10MB	977	4	17	0	336
24	40MB	1024	5	17	None	976
25	76MB	1224	9	17	None	1023
26	71MB	1224	7	17	None	1223
27	111MB	1224	11	17	None	1223
28	152MB	1024	15	17	None	1223
29	68MB	1024	8	17	None	1023
30	93MB	918	11	17	None	1023
31	83MB	925	11	17	None	1023
32	69MB	1024	9	17	None	926
33	85MB	1024	10	17	None	1023
34	102MB	1024	12	17	None	1023
35	110MB	1024	13	17	None	1023
36	119MB	1024	14	17	None	1023
37	17MB	1024	2	17	None	1023
38	136MB	1024	16	17	None	1023
39	114MB	918	15	17	None	1023
40	40MB	820	6	17	None	1023
41	42MB	1024	5	17	None	1023
42	65MB	1024	5	26	None	1023
43	40MB	809	6	17	None	852
44	61MB	809	6	26	None	852
45	100MB	776	8	33	None	775
46	203MB	684	16	38	None	685
USER						

Chapter 3

AWARD BIOS SETUP

When the system is being powered on or reset, the BIOS will display a copyright message on the first line of the screen, then the BIOS will perform the diagnostics and initialization. After all of the above tests have been passed, the message

"Press DEL to enter SETUP, ESC to skip memory test"

is displayed. If the [DEL] key or [ctrl-alt-esc] is pressed, the screen will be cleared and then the following message will be showed:

ROM ISA BIOS (XXXXXXXX)
 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
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	

3 - 1 Standard CMOS Setup

Date (mn/date/year) : Sat, Jan 1 1994					
Time (hh/min/sec) : 16 : 45 : 44					
	CYLS	HEADS	PRECOMP	LANDZONE	SECTORS
Drive C: None (0Mb)	0	0	0	0	0
Drive D: None (0Mb)	0	0	0	0	0
Drive A: : 1.2M , 5.25 in.					
Drive B: : None					
Video : EGA/VGA					
Halt On : All Errors					
		Base Memory:	640K		
		Extended Memory:	3328K		
		Expended Memory:	0K		
		Other Memory:	128K		
		<hr/>			
		Total Memory:	4096K		

The setup program is completely menu-driven:

1. Use arrow keys to select entry : Data, Time, Hard Disk(C/D), Floppy, and Display.
2. Use PgUp/PgDn key to modify the option of each entry.
3. Use Esc to exit this screen.

Optimize : HDD Standby Timer : 3 Min
Doze Timer Select : 8 Min
Standby Timer Select : 8 Min
Inactive Timer Select : 8 Min

User Define : HDD Standby Timer : Disabled
Doze Timer Select : 512 Min
Standby Timer Select : 512 Min
Inactive Timer Select : 512 Min

Control Item Select :

CPU CLK : For CPU input Clock Control
1/4 CLKI --> Slow Down CPU to Clock/4
1/8 CLKI --> Slow Down CPU to Clock/8
STOP CLK --> CPU Clock Stop
VGA : On --> Display screen open
Off--> The display screen will be closed.

Wake up the system:

Pressing any Key or moving Mouse to Wake up the system.

ROM ISA BIOS (XXXXXXX)
 POWER MANAGEMENT SETUP
 AWARD SOFTWARE, INC.

Power Management : Disabled	* Monitor Even In Full On Mode
PM Control By APM : Enabled	VESA Slave Activity : Disabled
Video Off Method : Blank Screen	LPT Port Activity : Enabled
HDD Standby Timer : Disabled	COM Port Activity : Enabled
Doze Timer Select : 512 Min	ISA Master Activity : Enabled
Standby Timer Select : 512 Min	IDE Activity : Enabled
Inactive Timer Select : 512 Min	Floppy Activity : Enabled
Control Item : CPU CLK VGA	VGA Activity : Disabled
Doze mode Control : 1/4 CLKI On	Keyboard Active : Enabled
Standby Mode Control : 1/8 CLKI Off	
Inactive Mode Control : STOP CLK Off	
Suspend Switch Select : Disabled	

POWER MANAGEMENT Timer Selection :

Disabled : HDD Standby Timer : Disabled
 Doze Timer Select : 512 Min
 Standby Timer Select : 512 Min
 Inactive Timer Select : 512 Min

Min Saving : HDD Standby Timer : 15 Min
 Doze Timer Select : 512 Min
 Standby Timer Select : 512 Min
 Inactive Timer Select : 512 Min

Max Saving : HDD Standby Timer : 1 Min
 Doze Timer Select : 0.5 Min
 Standby Timer Select : 2 Min
 Inactive Timer Select : 2 Min

3 - 2 BIOS Feature Setup

If you don't really understand the meanings of each item, please don't change the default values. The default setting may be different from those shown below:

ROM ISA BIOS (XXXXXXXX)
 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 Seft Test : Enabled	D0000-D3FFF Shadow : Disabled
Boot Sequence : A, C	D4000-D7FFF Shadow : Disabled
Swap Floppy Driver : Disabled	D8000-DBFFF Shadow : Disabled
Boot Up Floppy Seek : Enabled	DC000-DFFFF Shadow : Disabled
Boot Up NumLock Status : On	E0000-E3FFF Shadow : Disabled
Boot Up System Speed : High	E4000-E7FFF Shadow : Disabled
HDD IDE Block Mode : Disabled	E8000-EBFFF Shadow : Disabled
Gate A20 Option : Fast	EC000-EFFFF Shadow : Disabled
Memory Parity Check : Enabled	
Typematic Reat Setting : Disabled	
Typematic Reat (Chars/Sec) : 6	
Typematic Reat (Msec) : 250	
Security Option : Setup	
IDE Second Channel Control : Enabled	

3 - 3 Chipset Features Setup

The Chipset Features Setup is entirely chipset specific portion and requires full knowledge about the detail definition of UMC chipset . Each option is tightly corresponding with the hardware structure. Without our engineering change notice,we strongly recommend"don't change any contents in advanced chipset setup menu".

ROM ISA BIOS (XXXXXXXX)
 CHIPSET FEATURES SETUP
 AWARD SOFTWARE, INC.

Auto Configuration	: Enabled	Hold CPU Percentage	: 1/1
DRAM Wait State select	: 2 WS	Alt Bit in Tag SRAM	: 7 + 1 Bit
DRAM Type	: Normal Page	ISA Bus Refresh Mode	: Fast
L2 Cache Read Wait State	: 3-2-2-2	LOWA20# Emulation	: Disabled
L2 Cache Write Wait State	: 2WS	RC Reset Emulation	: Disabled
L1 Cache Update Scheme	: Wr-Through	Weitek type coprocessor	: Absent
Keyboard Controller Clock	: 9.5 MHz	DRAM Refresh Method	: Ras Only
ISA Bus Clock Option	: CLK/4		
System BIOS Cacheable	: Disabled		
Video BIOS Cacheable	: Disabled		
IO Recovery (Bus/Onboard)	: 5/ 3		
Weitek Ready Out Delay	: 2WS		
Local Ready Delay Setting	: Delay 1T		
Signal LDEV# Sample Time	: In T2		
CPU ADS# Delay 1T or Not	: Delay 1T		
Flush Cache when Dethrbo	: Disabled		
Force Miss when Deturbo	: Disabled		

3 - 4 Power Management Setup

Supporting the EPA Energy Star PC specification with Deep Green system Design. It supports the advanced SMM CPU. Accommodated with UMC Super U5S CPU. System performs stop clock mode. The function for power savings options are:

- . HDD Standby Timer :
The Hard disk entering power down mode.
- . Display Power Down :
The display screen will be closed.
- . System power down mode :
 Full-on : System runs in full speed CPU clock
 Doze : Sytem runs in lower CPU clock
 Standby : System scales-down the CPU clock
 Suspend : With SMM CPU, performs stop clock in suspend mode