



# RADAR II MOTHERBOARD CMOS SETUP

## EF CORP MOTHERBOARD BIOS SETTINGS

Immediately after the memory test, press **DELETE** to enter **CMOS SETUP** (This must be done on a PC keyboard connected to the back of the RADAR). *Note: A 5 Pin DIN to PS/2 adapter will be needed to connect a keyboard.*

- 1 Choose **LOAD BIOS DEFAULTS**, press **ENTER**, **Y**, **ENTER** to load the default settings.

>STANDARD CMOS FEATURES	>INTEGRATED PERIPHERALS
>BIOS FEATURES SETUP	>SUPERVISOR PASSWORD
>CHIPSET FEATU	WORD
>POWER MANAG	LOAD BIOS DEFAULTS (Y/N) Y
>PNP/PCI CONFIC	TO DETECTION
>LOAD BIOS DEFAULTS	SETUP
>LOAD SETUP DEFAULTS	>EXIT WITHOUT SAVING
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift) F2 : Change Color
Load BIOS Defaults Except Standard CMOS Setup	



2 a) Select **STANDARD CMOS FEATURES**, press **ENTER**.

b) Make the following changes:

- **DATE (MM:DD:YY)** to current date
- **TIME (HH:MM:SS)** to current time
- **HALT ON** to **NO ERRORS**.

Date (mm:dd:yy) : Thu Aug 19 YYYY										
Time (hh:mm:ss) : 15 : 45 : 2										
HARD DRIVE	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE		
Primary Master	Auto	0	0	0	0	0	0	0	Auto	
Primary Slave	None	0	0	0	0	0	0	0	-----	
Secondary Master	None	0	0	0	0	0	0	0	-----	
Secondary Slave	None	0	0	0	0	0	0	0	-----	
Drive A : 1.4M, 3.5 in.					Base Memory					640 K
Drive B : None					Extended Memory					64512 K
Video : EGA/VGA					Other Memory					384 K
<b>Halt On : No Errors</b>					Total Memory					65536 K
Esc : Quit			↑ ↓ → ← : Select Item				PU/PD/+/- : Modify			
F10 : Save & Exit Setup			(Shift) F2 : Change Color							

c) Press **ESC** to exit.



3 a) Select **BIOS FEATURES SETUP**, press **ENTER**.

Virus Warning	Disabled	Video BIOS Shadow	Enabled
CPU Internal Cache	Enabled	C8000-CBFFF Shadow	Disabled
External Cache	Enabled	CC000-CFFFF Shadow	Disabled
<b>Boot Sequence</b>	<b>C,A,SCSI</b>	D0000-D3FFF Shadow	Disabled
Swap Floppy Drive	Disabled	D4000-D7FFF Shadow	Disabled
<b>Boot Up Floppy Seek</b>	<b>Disabled</b>	D8000-DBFFF Shadow	Disabled
Boot Up NumLock Status	On	DC000-DFFFF Shadow	Disabled
Memory Parity/ECC Check	Disabled		
Typematic Rate Setting	Disabled		
Typematic Rate (Chars/Sec)	6		
Typematic Delay (Msec)	250		
Security Option	Setup		
<b>PS/2 Mouse Function Control</b>	<b>Disabled</b>		
PCI/VGA Palette Snoop	Disabled		
OS Select For DRAM > 64 MB	Non-OS2		
Report No FDD For Win 95	Yes		

ESC	: Quit	Select Item
F1	: Help	PU/PD/+/- : Modify
F5	: Old Values	(Shift) F2 : Color
F6	: Load BIOS Defaults	
F7	: Load Setup Defaults	

b) Make the following changes:

- **BOOT SEQUENCE** to **C, A, SCSI**
- **PS/2 MOUSE FUNCTION CONTROL** to **DISABLED**

c) Press **ESC** to exit.

4 a) Select **CHIPSET FEATURES SETUP**, press **ENTER**.

Bank 0/1 DRAM Timing	SDRAM 10 ns	Auto Detect DIMM/PCI Clk	Enabled
Bank 2/3 DRAM Timing	FP/EDO 10 ns	System EMI Suppot	Disabled
Bank 4/5 DRAM Timing	FP/EDO 70 ns		
Video Cacheable	Enabled		
System Cacheable	Enabled		
Memory Hole at 15MB Addr.	Disabled		
AGP Aperture Size	64 M		
<b>OnChip USB</b>	<b>Disabled</b>		

  

ESC	: Quit	Select Item
F1	: Help	PU/PD/+/- : Modify
F5	: Old Values	(Shift) F2 : Color
F6	: Load BIOS Defaults	
F7	: Load Setup Defaults	

b) Change **ONCHIP USB** to **DISABLED**

c) Press **ESC** to exit.

5 a) Select **POWER MANAGEMENT SETUP**, press **ENTER**.

<b>ACPI Function</b>	<b>Disabled</b>	Primary INTR	ON
Power Management	User Define	IRQ 3 (COM 2)	Primary
PM Control by APM	Yes	IRQ 4 (COM 1)	Primary
<b>Video Off Option</b>	<b>Always On</b>	IRQ 5 (LPT 2)	Primary
Video Off Method	V/H SYNC+Blank	IRQ 6 (Floppy Disk)	Primary
MODEM Use IRQ	3	IRQ 7 (LPT 1)	Primary
Soft-Off by PWRBTN	Delay 4 Sec	IRQ 8 (RTC Alarm)	Disabled
	<b>** PM Timers **</b>	IRQ 9 (IRQ Redir)	Secondary
HDD Power Down	Disabled	IRQ 10 (Reserved)	Secondary
Doze Mode	Disabled	IRQ 11 (Reserved)	Secondary
Suspend Mode	Disabled	IRQ 12 (PS/2 Mouse)	Primary
	<b>** PM Events **</b>	Irq 13 (Coprocessor)	Primary
VGA	OFF	IRQ 14 (Hard Disk)	Primary
LPT & COM	LPT/COM	IRQ 15 (Reserved)	Disabled
HDD & FDD	ON		
DMA/master	OFF		

  

ESC	: Quit	Select Item
F1	: Help	PU/PD/+/- : Modify
F5	: Old Values	(Shift) F2 : Color
F6	: Load BIOS Defaults	
F7	: Load Setup Defaults	



b) Make the following changes:

- **ACPI FUNCTION** to **DISABLED**
- **VIDEO OFF OPTION** to **ALWAYS ON**

c) Press **ESC** to exit.

**6** a) Select **PNP/PCI CONFIGURATIONS**, press **ENTER**.

PNP OS Installed	NO	PCI Delay Transaction	Enabled
<b>Resources Controlled By</b>	<b>Manual</b>	PCI IRQ Activated By	Level
Reset Configuration Data	Disabled		
		Assign IRQ for VGA	Enabled
IRQ 3 Assigned to	Legacy ISA	PCI 1 Use IRQ No.	Auto
IRQ 4 Assigned to	PCI/ISA PnP	PCI 2 Use IRQ No.	Auto
<b>IRQ 5 Assigned to</b>	<b>Legacy ISA</b>	PCI 3 Use IRQ No.	Auto
IRQ 7 Assigned to	Legacy ISA	PCI 4 Use IRQ No.	Auto
<b>IRQ 9 Assigned to</b>	<b>PCI/ISA PnP</b>		
IRQ 10 Assigned to	PCI/ISA PnP		
IRQ 11 Assigned to	PCI/ISA PnP		
IRQ 12 Assigned to	PCI/ISA PnP		
<b>IRQ 14 Assigned to</b>	<b>PCI/ISA PnP</b>		
<b>IRQ 15 Assigned to</b>	<b>PCI/ISA PnP</b>		
DMA 0 Assigned to	PCI/ISA PnP		
DMA 1 Assigned to	PCI/ISA PnP		
DMA 3 Assigned to	PCI/ISA PnP		
DMA 5 Assigned to	PCI/ISA PnP		
DMA 6 Assigned to	PCI/ISA PnP		
DMA 7 Assigned to	PCI/ISA PnP		

  

ESC : Quit	Select Item
F1 : Help	PU/PD/+/- : Modify
F5 : Old Values	(Shift) F2 : Color
F6 : Load BIOS Defaults	
F7 : Load Setup Defaults	

b) Make the following changes:

- **RESOURCES CONTROLLED BY** to **MANUAL**
- **IRQ-5 ASSIGNED** to, **LEGACY ISA**
- **IRQ-9 ASSIGNED** to, **PCI/ISA PNP**
- **IRQ-14 ASSIGNED** to, **PCI/ISA PNP**
- **IRQ-15 ASSIGNED** to, **PCI/ISA PNP**

c) Press **ESC** to exit.



7 a) Select **INTEGRATED PERIPHERALS**, press **ENTER**.

On Chip IDE Channel	Enabled	Onboard FDC Controller	Enabled
IDE Primary Master PIO	Auto	Onboard UART 1	3F8 / IRQ 4
IDE Primary Slave PIO	Auto	Onboard UART 2	2E8 / IRQ 3
<b>IDE Primary Master UDMA</b>	<b>Auto</b>	Onboard UAT 2 Mode	Standard
<b>IDE Primary Slave UDMA</b>	<b>Auto</b>		
<b>OnChip IDE Second Channel</b>	<b>Disabled</b>		
		Onboard Parallel Port	378 / IRQ 7
		Parallel Port Mode	Normal
IDE HDD Block Mode	Disabled		
Init Display First	PCI Slot		
		ESC : Quit	Select Item
		F1 : Help	PU/PD/+/- : Modify
		F5 : Old Values	(Shift) F2 : Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

b) Make the following changes:

- **IDE PRIMARY MASTER UDMA** to **AUTO**
- **IDE PRIMARY SLAVE UDMA** to **AUTO**
- **ON CHIP IDE SECOND CHANNEL** to **DISABLED**

c) Press **ESC** to exit.

8 Select **SAVE & EXIT SETUP**, press **ENTER**, **Y**, **ENTER** to save and boot RADAR.



# MATSONIC MOTHERBOARD BIOS SETTINGS

Immediately after the memory test, press **DELETE** to enter **CMOS SETUP** (This must be done on a PC keyboard connected to the back of the RADAR). *Note: A 5 Pin DIN to PS/2 adapter will be needed to connect a keyboard.*

- 1 Select **LOAD BEST PERFORMANCE DEFAULTS**, press **ENTER**, **Y**, **ENTER** to load the default settings.

>STANDARD CMOS FEATURES	>INTEGRATED PERIPHERALS
>BIOS FEATURES SETUP	>SUPERVISOR PASSWORD
>CHIPSET FEATURES SE	ORD
>POWER MANAGEMENT	>DETECTION
>PNP/PCI CONFIGURATIO	ETUP
> <b>LOAD BEST PERFORMANCE DEFAULTS</b>	>EXIT WITHOUT SAVING
>LOAD SETUP DEFAULTS	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift) F2 : Change Color
Load BIOS Defaults Except Standard CMOS Setup	



2 a) Select **STANDARD CMOS FEATURES**, press **ENTER**.

b) Make the following changes:

- **DATE (MM:DD:YY)** to current date
- **TIME (HH:MM:SS)** to current time
- **HALT ON** to **NO ERRORS**.

Date (mm:dd:yy) : Thu Aug 19 YYYY								
Time (hh:mm:ss) : 15 : 45 : 2								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master	User	0	0	0	0	0	0	Normal
Primary Slave	None	0	0	0	0	0	0	-----
Secondary Master	None	0	0	0	0	0	0	-----
Secondary Slave	None	0	0	0	0	0	0	-----
Drive A : 1.4M, 3.5 in.					Base Memory		640 K	
Drive B : None					Extended Memory		64512 K	
Video : EGA/VGA					Other Memory		384 K	
<b>Halt On : No Errors</b>					Total Memory		65536 K	
Esc : Quit			↑ ↓ → ← : Select Item			PU/PD/+/- : Modify		
F1 : Help			(Shift) F2 : Change Color					

c) Press **ESC** to exit.





3 a) Select **BIOS FEATURES SETUP**, press **ENTER**.

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	Enabled	D0000-D3FFF Shadow	Disabled
<b>Boot Sequence</b>	<b>C,A,SCSI</b>	D4000-D7FFF Shadow	Disabled
Swap Floppy Drive	Disabled	D8000-DBFFF Shadow	Disabled
<b>Boot Up Floppy Seek</b>	<b>Disabled</b>	DC000-DFFFF Shadow	Disabled
Boot Up NumLock Status	On		
Boot Up System Speed	High		
Gate A20 Option	Fast		
Typematic Rate Setting	Disabled		
Typematic Rate (Chars/Sec)	6		
Typematic Delay (Msec)	250		
Security Option	Setup		
IDE Second Channel Control	Enabled		
PS/2 Mouse Function Control	Enabled		
PCI/VGA Palette Snoop	Disabled		
Assign IRQ For VGA	Disabled		
OS Select For DRAM > 64 MB	Non-OS2		

  

ESC	: Quit	Select Item
F1	: Help	PU/PD/+/- : Modify
F5	: Old Values	(Shift) F2 : Color
F6	: Load BIOS Defaults	
F7	: Load Setup Defaults	

b) Make the following changes:

- **BOOT SEQUENCE** to **C, A, SCSI**
- **BOOT UP FLOPPY SEEK** to **DISABLED**

c) Press **ESC** to exit.



4 a) Select **PNP/PCI CONFIGURATION**, press **ENTER**

PNP OS Installed	Yes	PCI Delay Transaction	: Disabled
<b>Resources Controlled By</b>	<b>Manual</b>	PCI Master 0 WS Write	: Enabled
Reset Configuration Data	Disabled		
		PCI IRQ Activated By	: Edge
		PCI IDE Map To	: PCI - Auto
		Primary IDE INT#	: A
		Secondary IDE INT#	: B
IRQ 3 assigned to	Legacy ISA		
<b>IRQ 4 assigned to</b>	<b>PCI/ISA PnP</b>		
<b>IRQ 5 assigned to</b>	<b>Legacy ISA</b>		
IRQ 7 assigned to	Legacy ISA		
IRQ 9 assigned to	PCI/ISA PnP		
IRQ 10 assigned to	PCI/ISA PnP		
IRQ 11 assigned to	PCI/ISA PnP		
IRQ 12 assigned to	PCI/ISA PnP		
<b>IRQ 14 assigned to</b>	<b>PCI/ISA PnP</b>		
<b>IRQ 15 assigned to</b>	<b>PCI/ISA PnP</b>		
DMA 0 assigned to	PCI/ISA PnP		
DMA 1 assigned to	PCI/ISA PnP		
DMA 3 assigned to	PCI/ISA PnP		
DMA 5 assigned to	PCI/ISA PnP		
DMA 6 assigned to	PCI/ISA PnP		
DMA 7 assigned to	PCI/ISA PnP		
		ESC : Quit	Select Item
		F1 : Help	PU/PD/+/- : Modify
		F5 : Old Values	(Shift) F2 : Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

b) Make the following changes:

- **RESOURCES CONTROLLED BY** to **MANUAL**
- **IRQ-4 ASSIGNED** to, **PCI/ISA PNP**
- **IRQ-5 ASSIGNED** to, **LEGACY ISA**
- **IRQ-14 ASSIGNED** to, **PCI/ISA PNP**
- **IRQ-15 ASSIGNED** to, **PCI/ISA PNP**

c) Press **ESC** to exit.



5 a) Select **INTEGRATED PERIPHERALS**, press **ENTER**.

On Chip IDE Channel	Enabled
<b>On Chip IDE Second Channel</b>	<b>Disabled</b>
IDE Prefetch Mode	Disabled
IDE HDD Block Mode	Disabled
IDE Primary Master PIO	Auto
IDE Primary Slave PIO	Auto
IDE Primary Master UDMA	Disabled
IDE Primary Slave UDMA	Disabled
Onboard FDD Controller	Enabled
Onboard Serial Port 1	COM1/3E8
<b>Onboard Serial Port 2</b>	<b>COM3/3E8</b>
Onboard Parallel Port	378/IRQ
Onboard Parallel Mode	SPP
IR Function	Unused

ESC : Quit	Select Item
F1 : Help	PU/PD/+/- : Modify
F5 : Old Values	(Shift) F2 : Color
F6 : Load BIOS Defaults	
F7 : Load Setup Defaults	

b) Make the following changes:

- **ONCHIP IDE SECOND CHANNEL** to **DISABLED**
- **ONBOARD SERIAL PORT 2** to **COM3/3E8**

c) Press **ESC** to exit.

6 Select **SAVE & EXIT SETUP**, press **ENTER**, **Y**, **ENTER** to save and boot RADAR.

**END of CMOS setup for Matsonic motherboard.**