
EXP8046
USER'S MANUAL

TABLE OF CONTENTS

CHAPTER 1 INTRODUCTION.....	1
1.1 OVERVIEW.....	1
1.2 SYSTEM FEATURES.....	1
1.3 SYSTEM SPECIFICATION.....	2
1.4 SYSTEM PERFORMANCE.....	2
1.5 EXP8046 BOARD LAYOUT.....	3
CHAPTER 2 INSTALLATION.....	4
2.1 DRAM INSTALLATION.....	4
2.2 SRAM INSTALLATION.....	7
2.3 CPU INSTALLATION.....	8
2.4 OTHER JUMPER & CONNECTOR INSTALLATION.....	26
CHAPTER 3 SYSTEM BIOS SETUP.....	28
3.1 THE SYSTEM SETUP.....	29
3.2 FIXED DISK SETUP.....	30
3.3 ADVANCED SYSTEM SETUP.....	31
3.3.1 MEMORY CACHE.....	32
3.3.2 MEMORY SHADOW.....	33
3.3.3 ADVANCED CHIPSET CONTROL.....	35
3.3.4 PCI DEVICES.....	37
3.4 BOOT OPTIONS.....	39
3.5 SECURITY AND ANTI-VIRUS.....	40
3.6 GREEN PC FEATURES.....	43

RMA FORM

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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

The EXP8046 is a new chip solution that offers the cost-effective system integration for 486 and P24T systems. Besides the standard features, the EXP8046 also supports VESA standards and power management features for most of advanced CPUs on the market. With the use of UM8002/UM8004 TTL ASIC buffer, the TTL components required on the main board are further reduced.

1.2 SYSTEM FEATURES

- Supports INTEL 486SX, DX, DX2, DX4,P24T, S-SERIAL, P24D
AMD DX, DX2, DXL.
CYRIX M6, M7, DX2.
UMC486.
- Supports 3 system states for power saving : STANDBY / SUSPEND / ON.
- Supports L1/L2 write back/write through cache feature.
- Supports 64KB/ 128KB/ 256KB cache size.
- Supports 72pin SIM MODULES.
- Supports SMI/ SMM/ PMU/ APM power controllers.
- Supports 2 MASTER 32-bit VESA Bus & 4 PCI Bus.

1.3 SYSTEM SPECIFICATIONS

Processor : INTEL 486DX/SX/DX2/DX4/P24T P24D 486CPU
CYRIX M6/M7/DX2 486CPU
AMD DX/DX2/DXL 486CPU
UMC486 CPU

CPU Clock : 25/33/40/50 MHz CPU

Memory Configuration : 2MB-128MB

SRAM Configuration : 64K/128K/256K

BIOS Subsystem : PHOENIX BIOS

Additional BIOS feature : Set program Resides in ROM

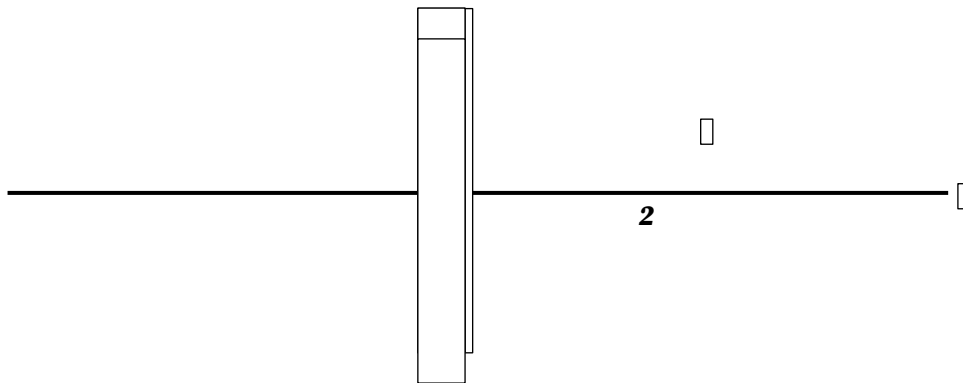
I/O Subsystem NO. slot : Three 16-bit ISA Bus & Four 32-bit PCI Bus & Two 32 bit VESA Local Bus

Dimension : 10.4" × 8.8" , 2/3 Baby AT Size

Additional features

Miscellaneous connectors : Reset Button, Internal Battery, Turbo SW, Flash LED(Turbo LED) for Power Green

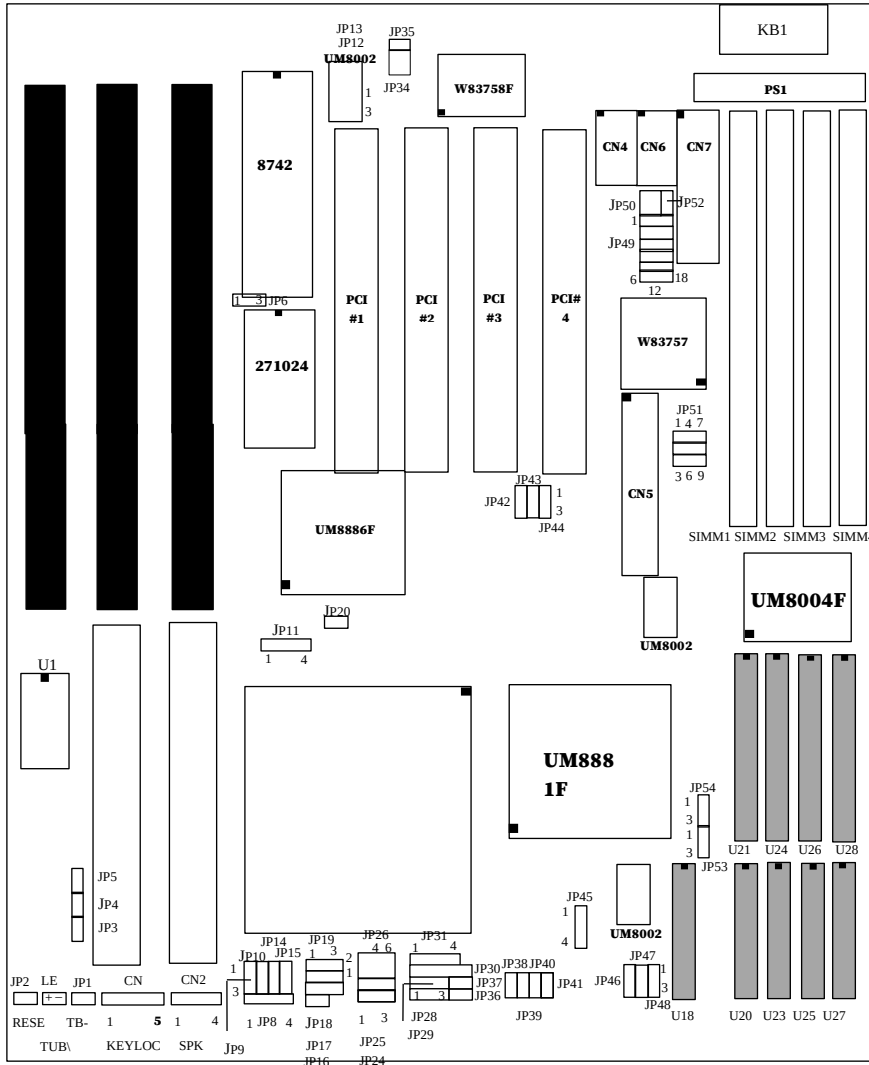
Board design : 4-layer Implementation for Low Noise Operation



1.4 SYSTEM PERFORMANCE

SOFTWARE CPU TYPE	LANDMARK V2.0	POWER METER V1.7 MIPS	NORTON V7.0 CPU SPEED
INTEL DX-33MHz	111.43MHz	13.5MIPS	71.9
AMD DX-40MHz	133.76MHz	16.2MIPS	86.3
CYRIX M7 DX- 40MHz	131.92MHz	15.8MIPS	67.9
INTEL DX2- 50MHz	167.20MHz	21.9MIPS	108.0
CYRIX M7 DX2- 50MHz	164.86MHz	19.8MIPS	84.8
INTEL DX-50MHz	167.27MHz	20.2MIPS	107.9
INTEL DX2- 66MHz	222.92 MHz	27.3MIPS	131.9

1.5 EXP8046 BOARD LAYOUT



CHAPTER 2

INSTALLATION

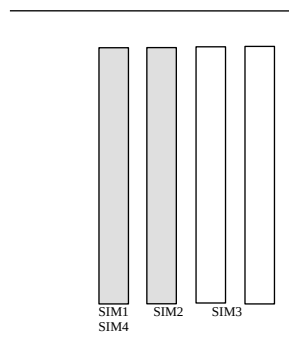
Before the system is ready to operate, the hardware must be set up for various functions of the system. To set up the EXP8046 main board is a simple task. The user only has to set a few jumpers, connectors and sockets.

2.1 DRAM INSTALLATION

The EXP8046 main board can support expanded memory from 2MB to 128MB. Either 256K, 1MB, 2MB, 4MB, 8MB, 16MB or 32MB SIM DRAM can be used on the EXP8046 motherboard.

■ The board layout below shows the locations of the DRAM memory banks :

Constrains---SIMM-1 and SIMM-2 must be the same type. (if con-exist)
Constrains---SiIMM-3 and SIMM-4 must be the same type. (if con-exist)



The DRAM type of SIMM-1/2 type is independent to that of SIMM-3/4.

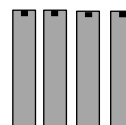
SIMM-1	SIMM-2	GROUP SIZE 1
256kx36 (single)	256kx36 (single)	2MB
1Mx36 (single)	NONE	4MB
NONE	1Mx36 (single)	4MB
1Mx36 (single)	1Mx36 (single)	8MB
1Mx36 (double)	NONE	8MB
NONE	1Mx36 (double)	8MB
1Mx36 (double)	1Mx36 (double)	16MB
2Mx36 (single)	NONE	8MB
NONE	2Mx36 (single)	8MB
2Mx36 (single)	2Mx36 (single)	16MB
2Mx36 (double)	NONE	16MB
NONE	2Mx36 (double)	16MB
2Mx36 (double)	2Mx36 (double)	32MB
4Mx36 (single)	NONE	16MB
NONE	4Mx36 (single)	16MB
4Mx36 (single)	4Mx36 (single)	32MB
4Mx36 (Double)	NONE	32MB
NONE	4Mx36 (Double)	32MB
4Mx36 (Double)	4Mx36 (Double)	64MB

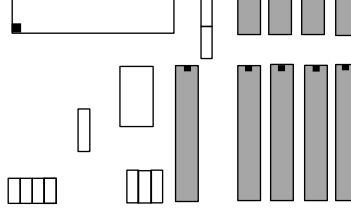
Some illegal examples of the SIMM-1/2 & SIMM3/4 COMBINATION...

SIMM-1 (SIMM-3)

SIMM-2 (SIMM-4)

1Mx36 single	1Mx36 double	(single/double)
1Mx36 double	1Mx36 single	(double/single)
4Mx36 single	1Mx36 single	(4M/1M)
1Mx36 single	4Mx36 single	(1M/4M)





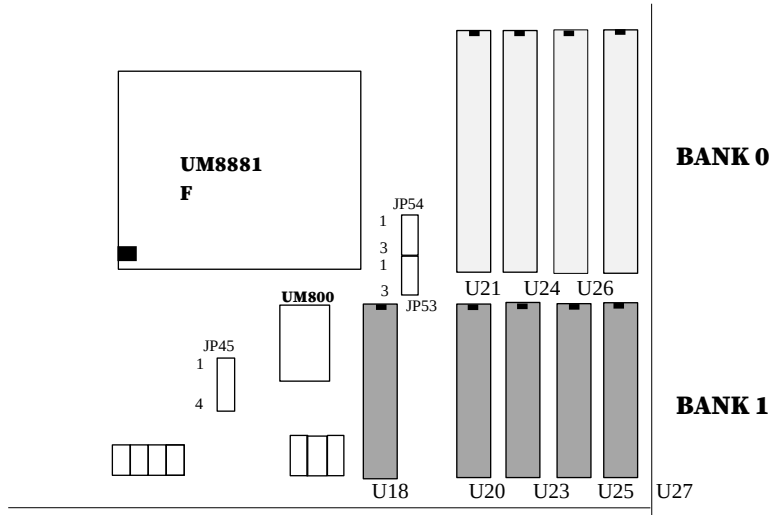
EXP8046 User's Manual

SIMM-3	SIMM-4	GROUP SIZE 2
256kx36 (single)	256kx36 (single)	2MB
1Mx36 (single)	NONE	4MB
NONE	1Mx36 (single)	4MB
1Mx36 (single)	1Mx36 (single)	8MB
1Mx36 (double)	NONE	8MB
NONE	1Mx36 (double)	8MB
1Mx36 (double)	1Mx36 (double)	16MB
2Mx36 (single)	NONE	8MB
NONE	2Mx36 (single)	8MB
2Mx36 (single)	2Mx36 (single)	16MB
2Mx36 (double)	NONE	16MB
NONE	2Mx36 (double)	16MB
2Mx36 (double)	2Mx36 (double)	32MB
4Mx36 (single)	NONE	16MB
NONE	4Mx36 (single)	16MB
4Mx36 (single)	4Mx36 (single)	32MB
4Mx36 (Double)	NONE	32MB
NONE	4Mx36 (Double)	32MB
4Mx36 (Double)	4Mx36 (Double)	64MB

$$\boxed{\text{TOTAL RAM SIZE}} = \boxed{\text{GROUP SIZE}} + \boxed{\text{GROUP SIZE \# 2}}$$

NOTE: The minimum group size of EXP8046 is 2MB (except zero). If you use single-sided 256Kx36 SIMMs for EXP8046 you must put two or four SIMMs on the motherboard.

2.2 SRAM INSTALLATION (ERRATUM)



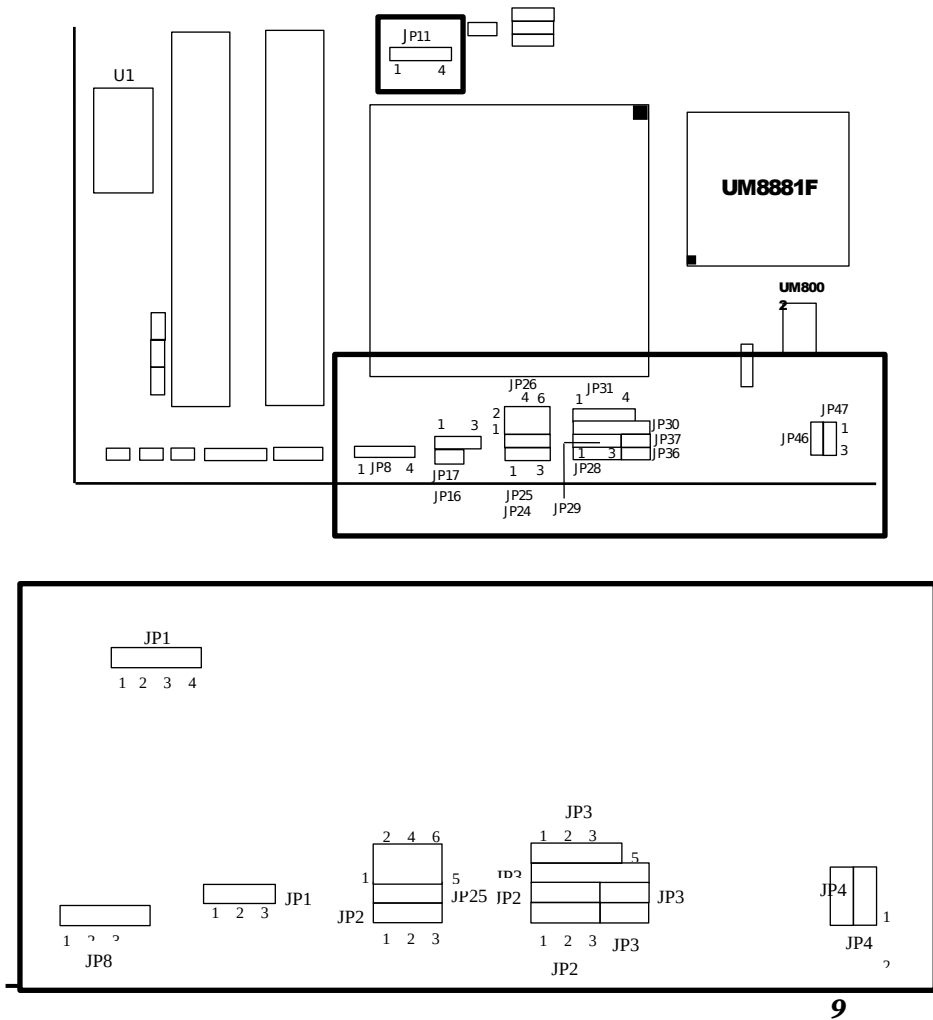
CACHE CONFIGURATION SIZE

64K		128K		256K ♣		256K	
TAG RAM	DATA RAM	TAG RAM	DATA RAM	TAG RAM	DATA RAM	TAG RAM	DATA RAM
U18 8K×8	U20-U21, U23-U28 8K×8	U18 8K×8	U21, U24, U26, U28 32K×8	U18 16K/32K×8	U20-U21, U23-U28 32K×8	U18 16K/ 32K×8	U21, U24, U26, U28 64K×8
JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3	JP45 JP53 JP54 1 2 3 2 3 3 1 2 3

♣ Default Setting

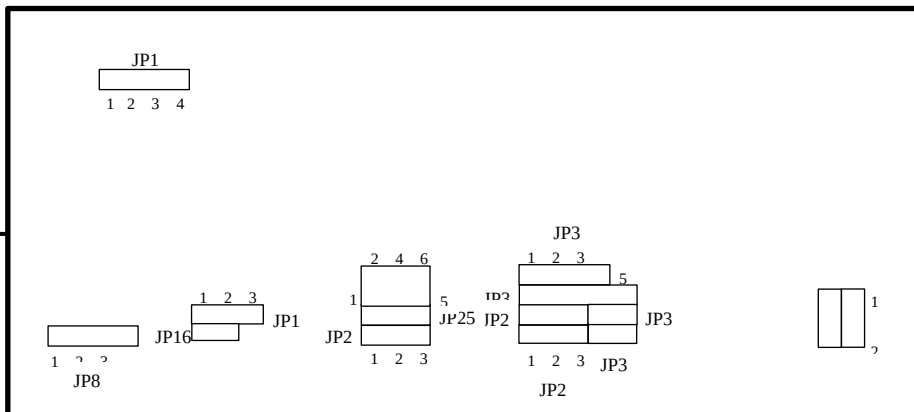
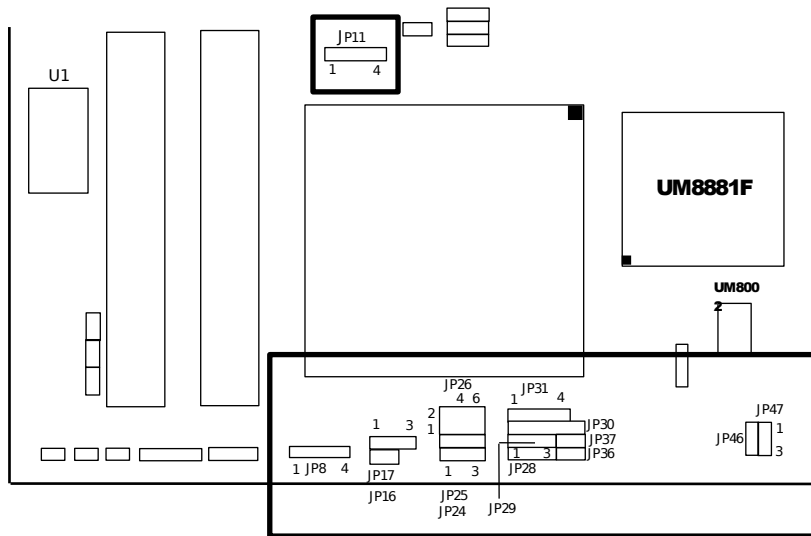
2.3 CPU INSTALLATION

486DX/DX2 CPU TYPE



JP16

486SX (PGA) CPU TYPE

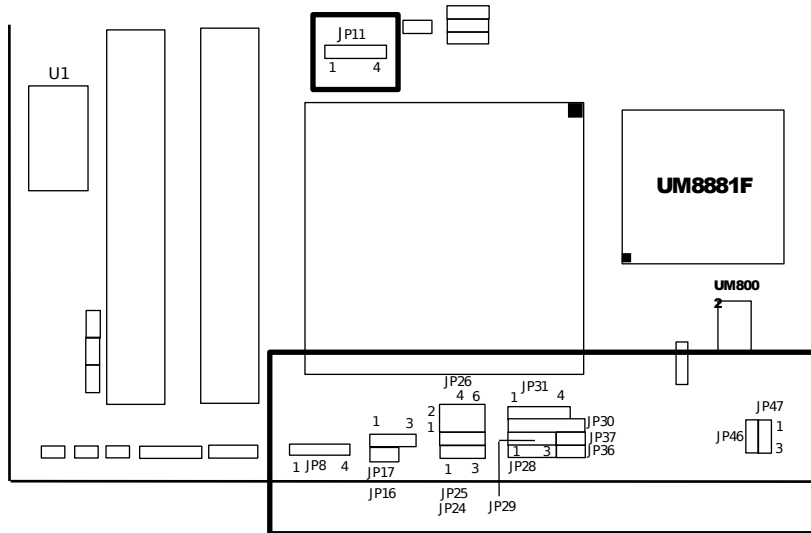


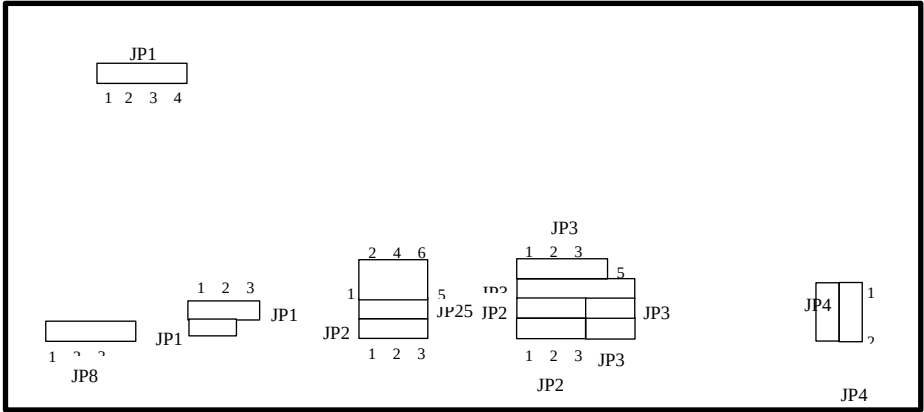
JP2

JP4

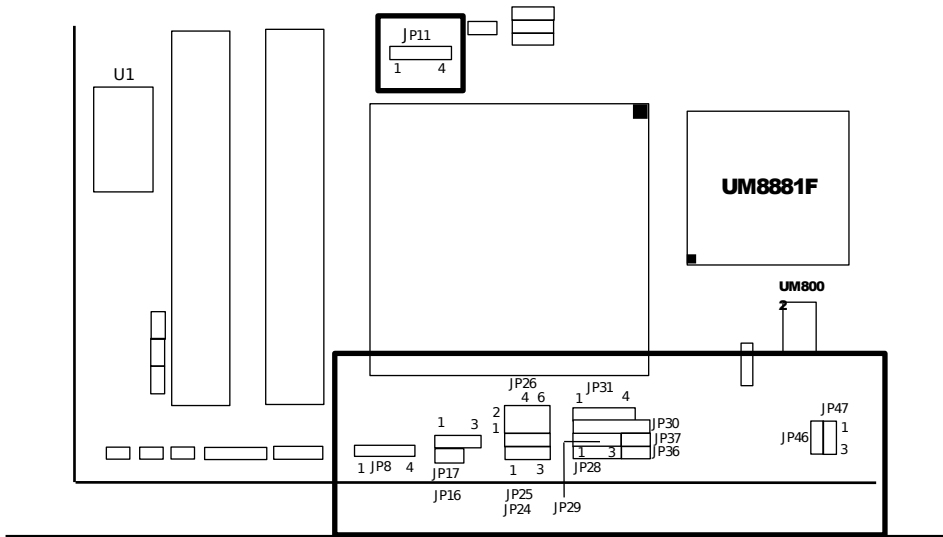
JP4

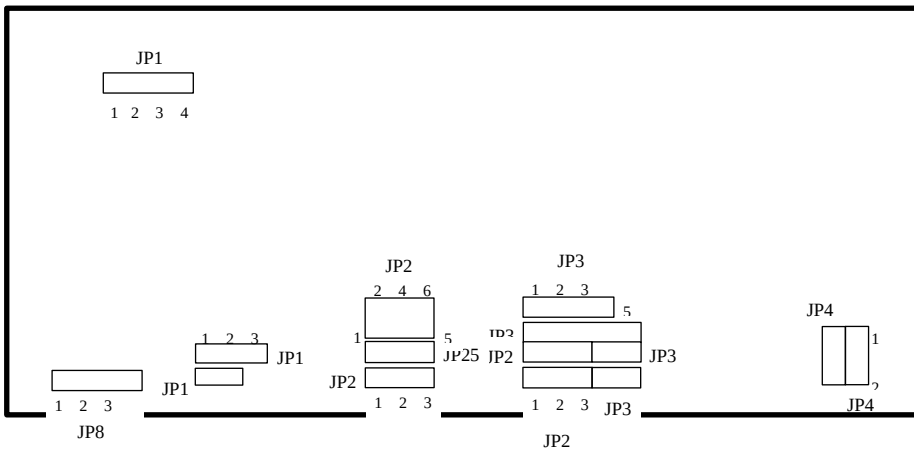
P24D CPU TYPE



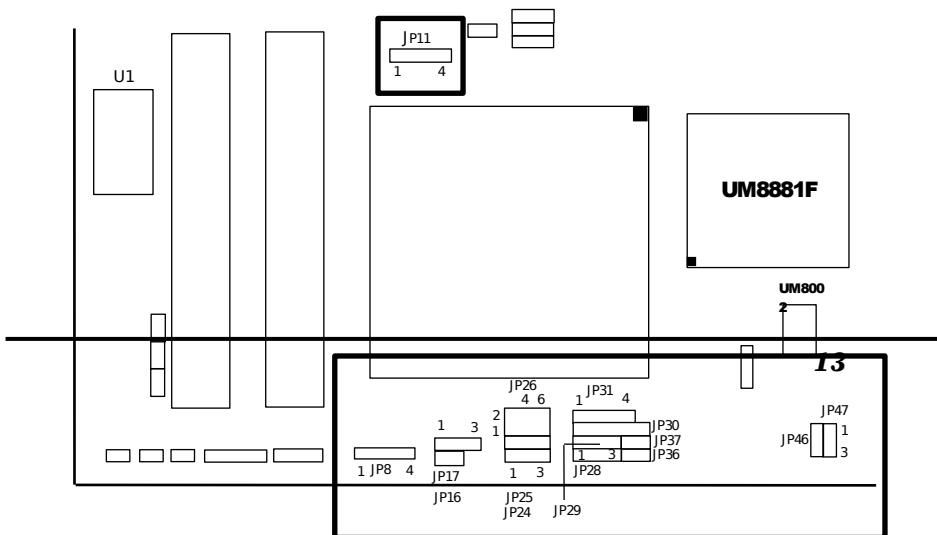


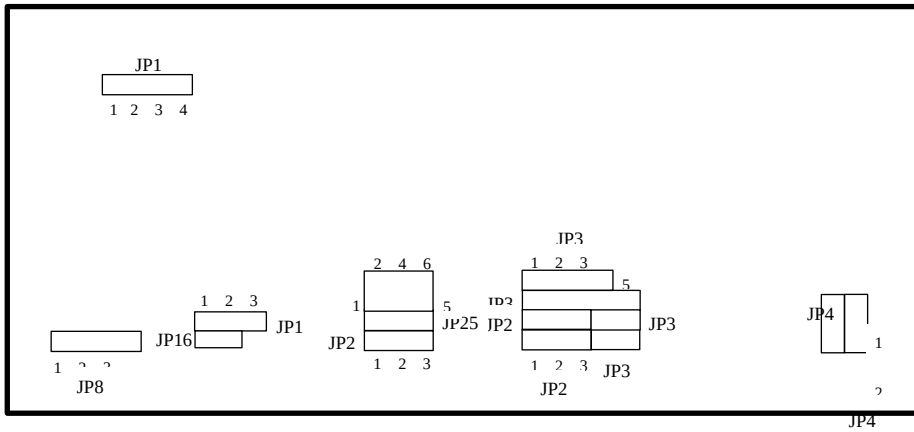
P24T CPU TYPE



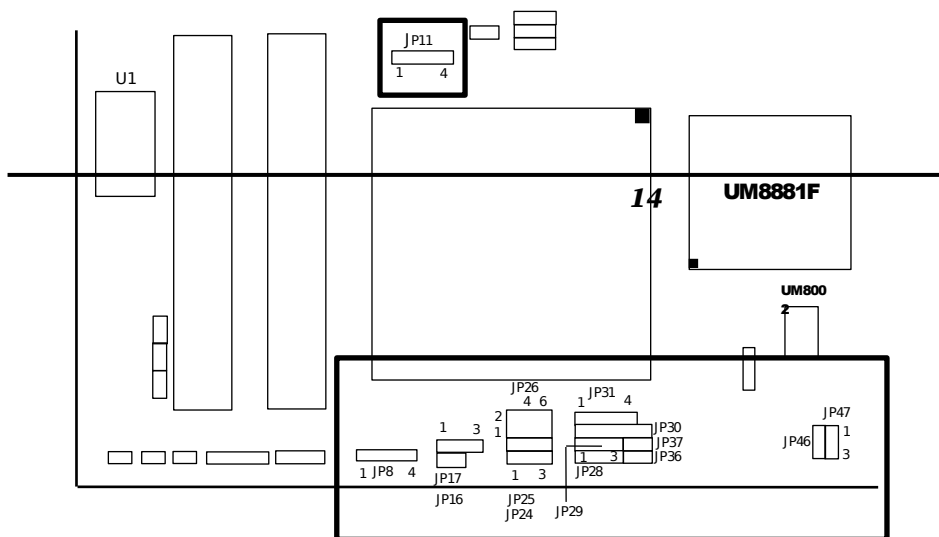


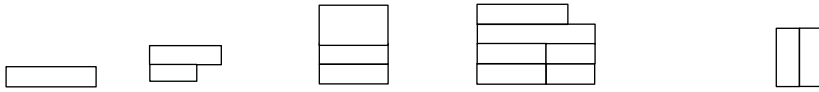
CX486S CPU TYPE



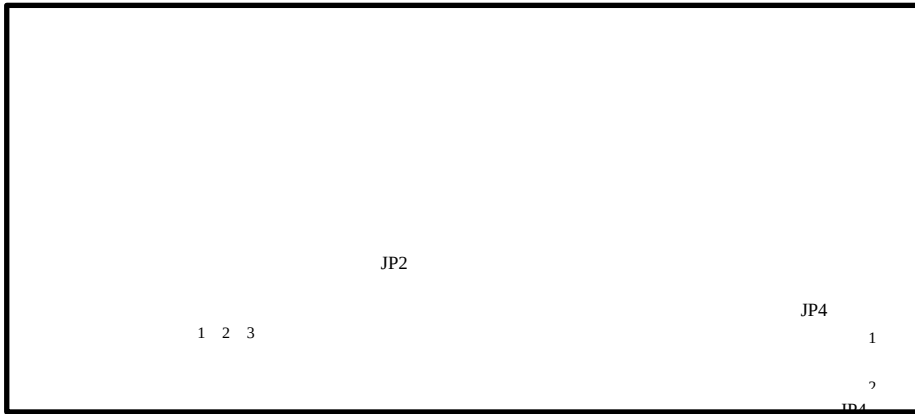


CX486DX CPU TYPE

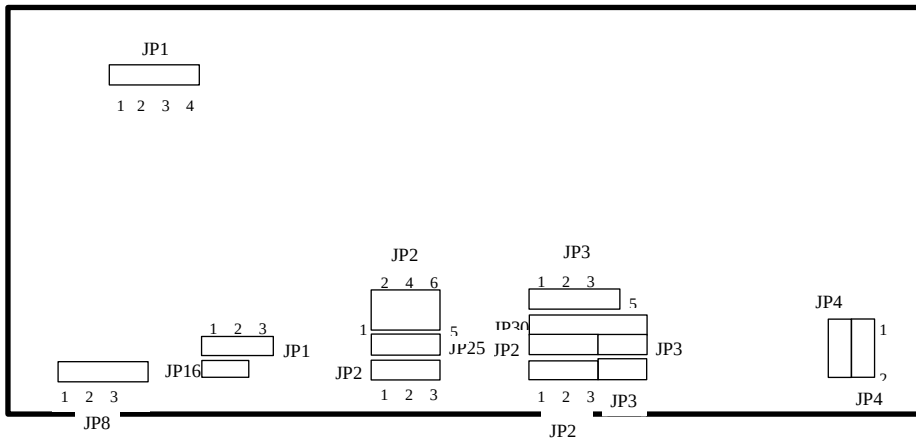
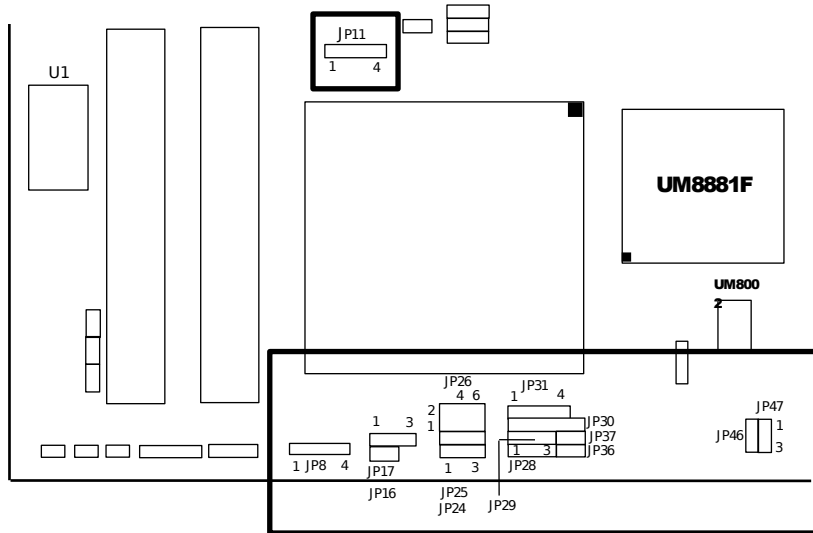




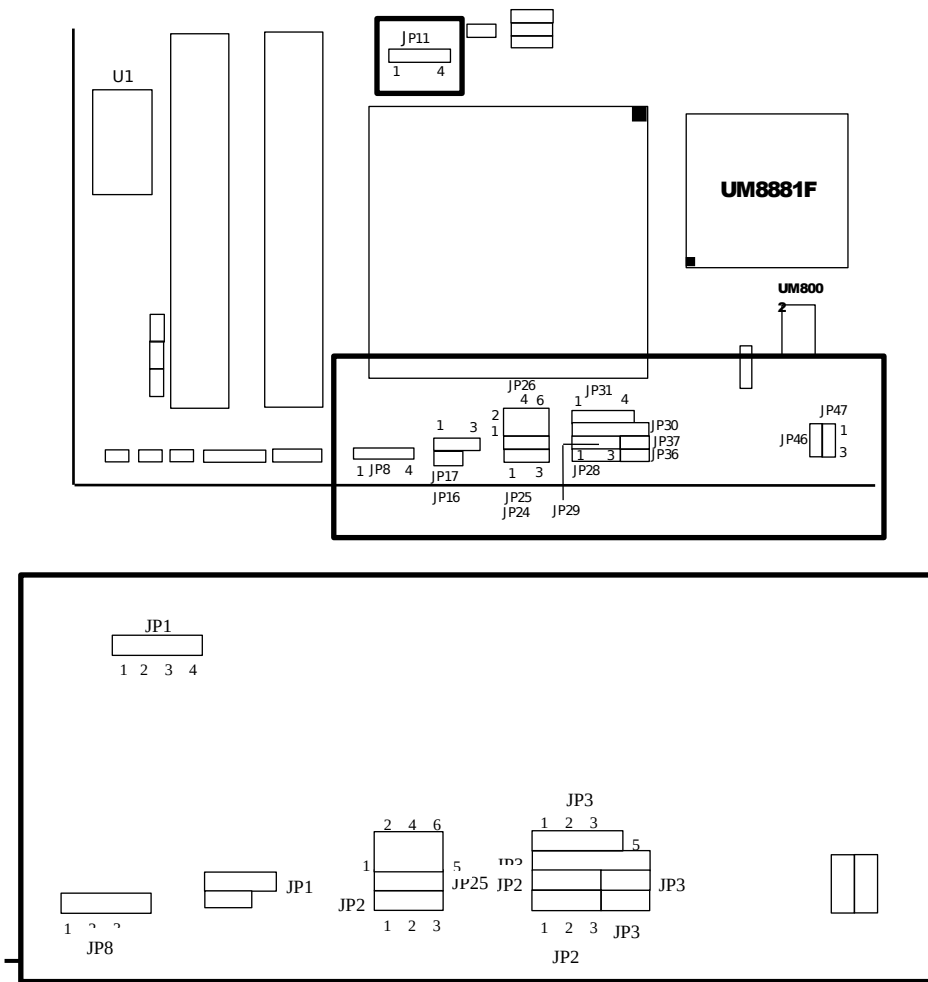
EXP8046 User's Manual

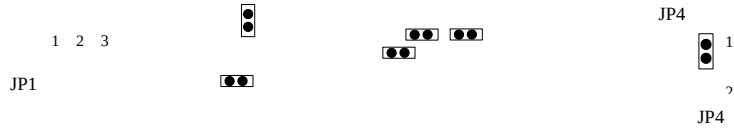


UMC486 CPU TYPE

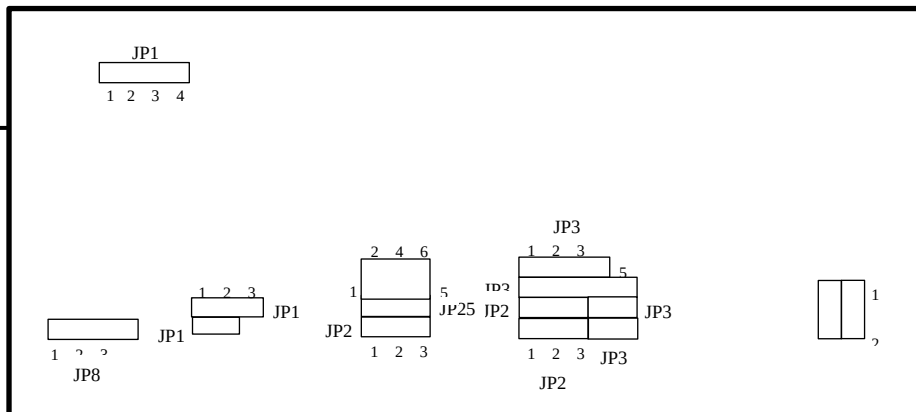
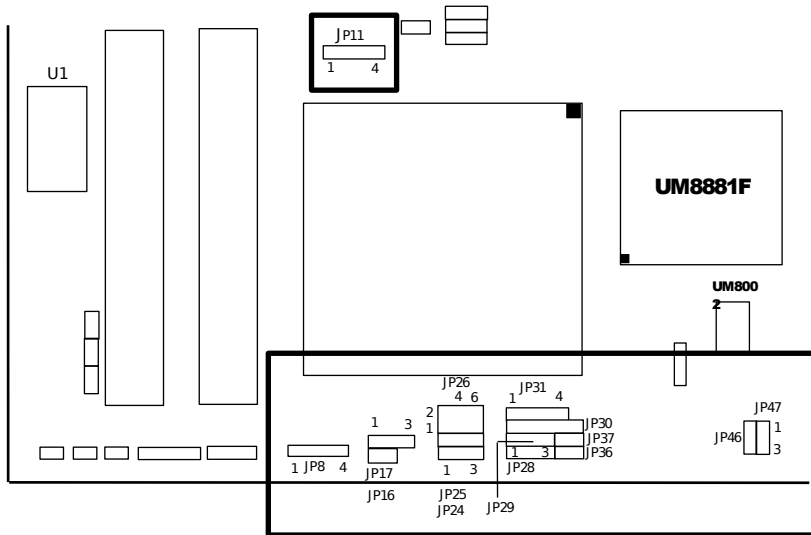


INTEL 486SX ENCHANCE CPU TYPE





INTEL 486DX/DX2 ENCHANCE ENCHANCE CPU TYPE

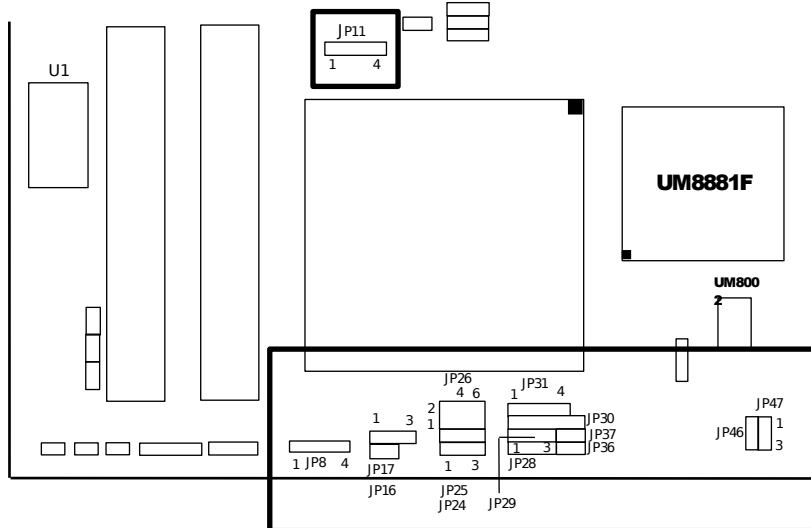


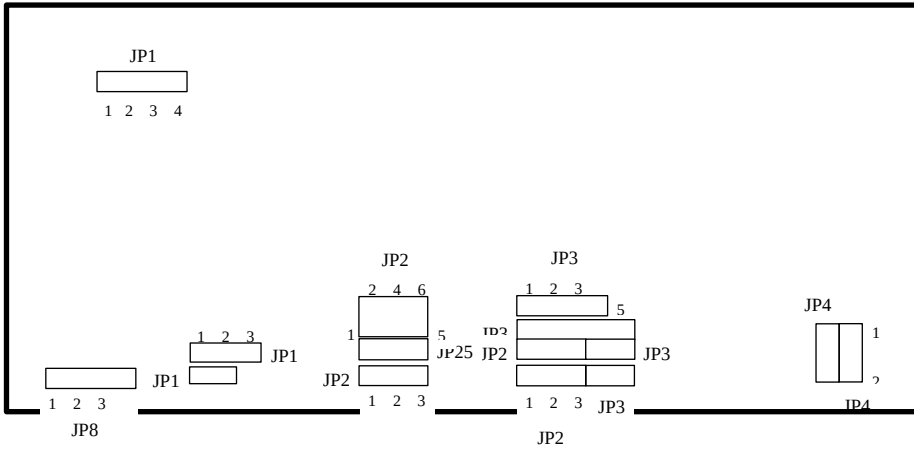
JP2

JP4

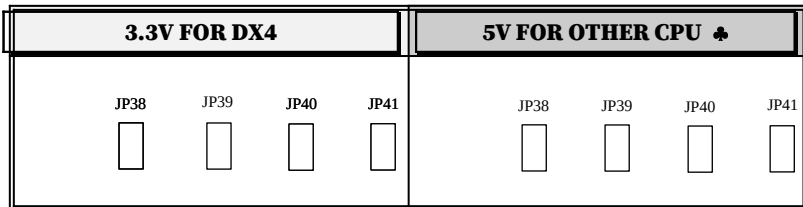
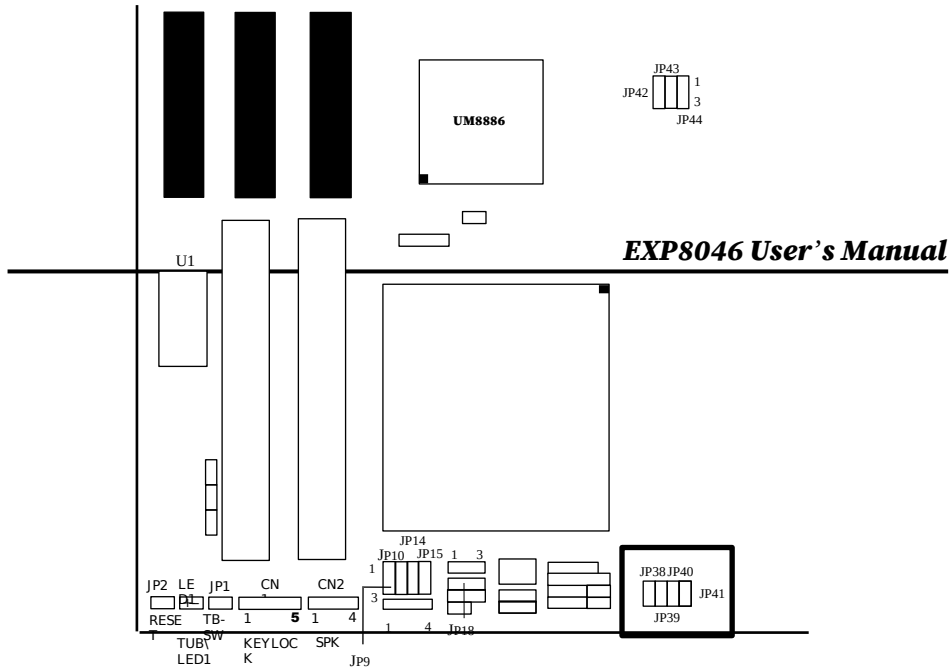
JP4

AM486DXL CPU TYPE



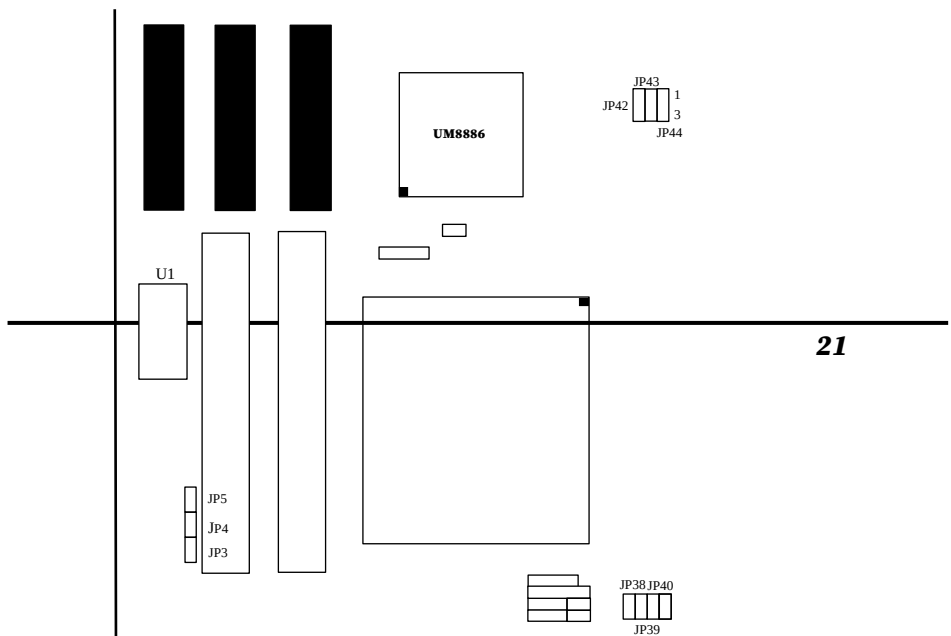


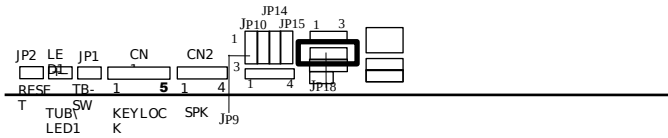
CPU POWER VOLTAGE






♣ Default Setting

INTEL P24C (DX4) CPU CLOCK

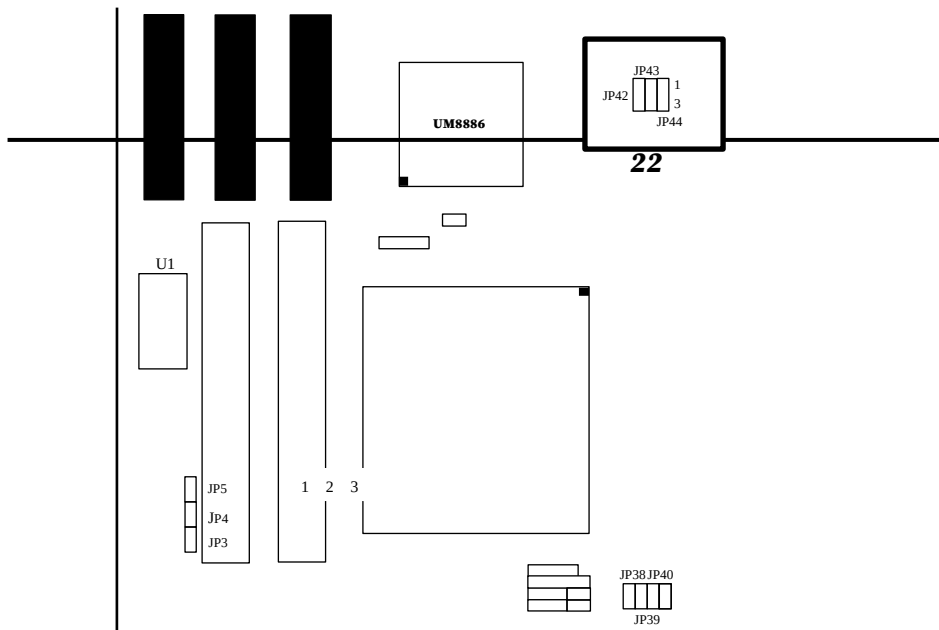


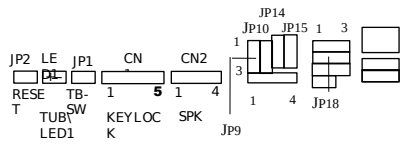


DX4 CPU CLOCK 2×	DX4 CPU CLOCK 2.5×	DX4 CPU CLOCK 3×
 JP1 1 2	 JP1 1 2	 JP1 1 2

♣ **Default Setting**

FREQUENCY SETTING

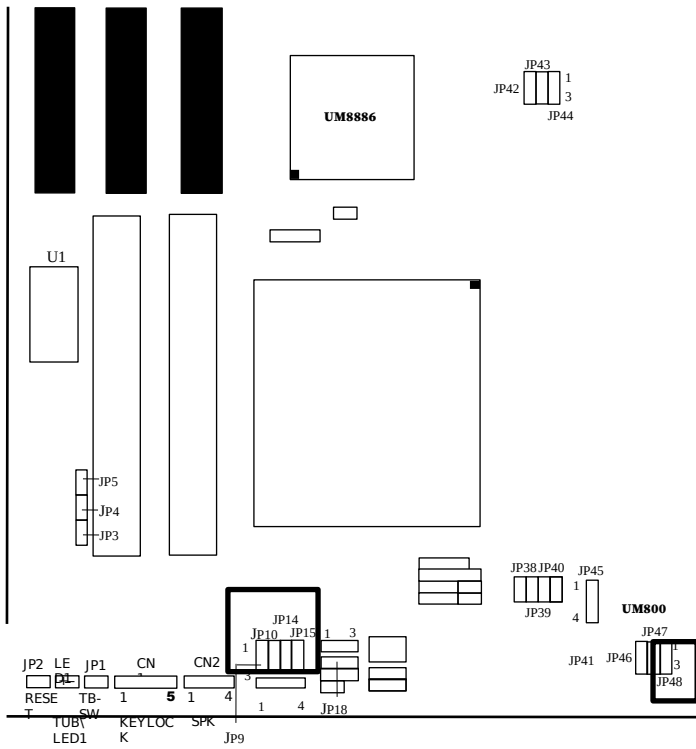




DX25/DX2-50MHz	DX-33/DX2-66MHz ♣	DX-40MHz	DX-50MHz
JP4 	JP4 	JP4 	JP4

♣ Default Setting

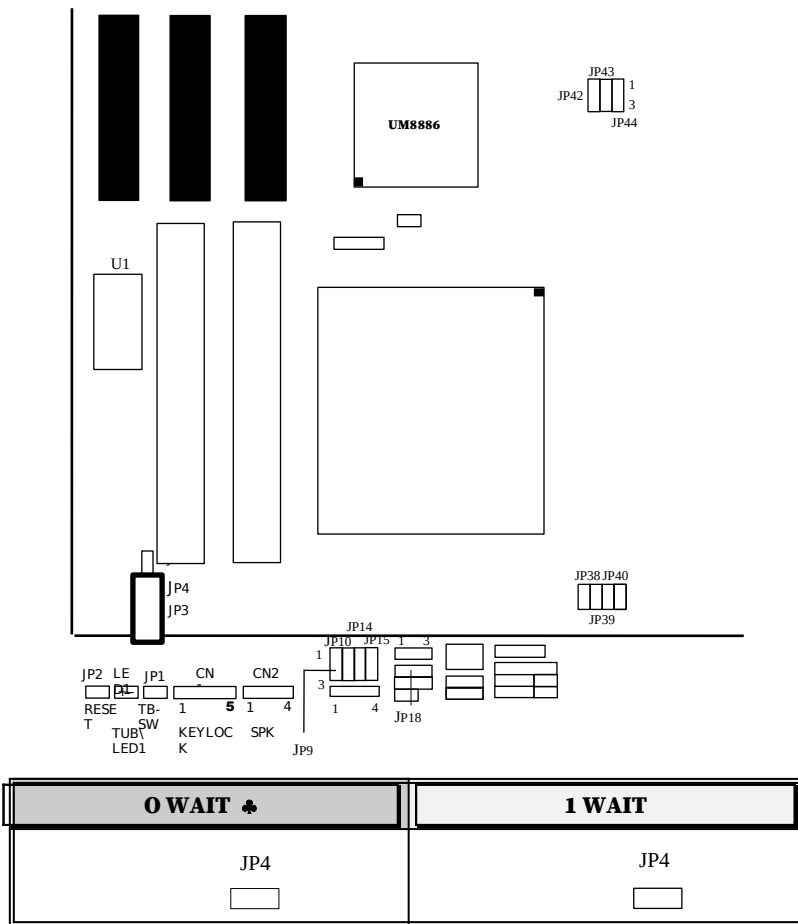
VESA BUS SETTING



SLAVE (PARITY ENABLE)					MASTER (PARITY DISABLE) ♣				
JP9	JP1	JP1	JP1	JP4	JP9	JP1	JP1	JP1	JP4
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3

♣ Default Setting

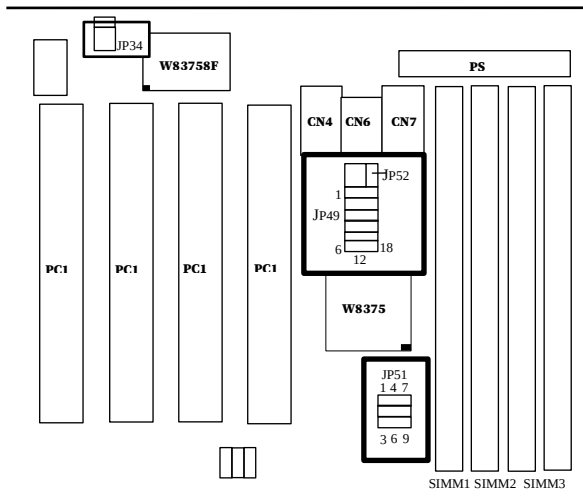
VESA BUS WAIT STATE SETTING



VL BUS CLOCK SETTING



<=33MHz ♣	>33MHz
JP3 <input type="checkbox"/>	JP3 <input type="checkbox"/>

♣ Default Setting
FLOPPY SETTING



DISABLED	ENABLED ♣
JP51 1 4 3 6	JP51 1 4 3 6

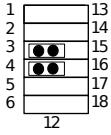
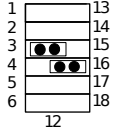
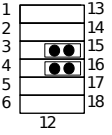
PRINTER SETTING (CN7)

IRQ7 ♣	IRQ5
JP34 	JP34 

♣ **Default Setting**
SERIAL PORT (COM1)

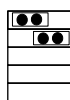
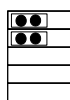
COM3 (3E8H)	DISABLED	COM1 (3F8H) ♣

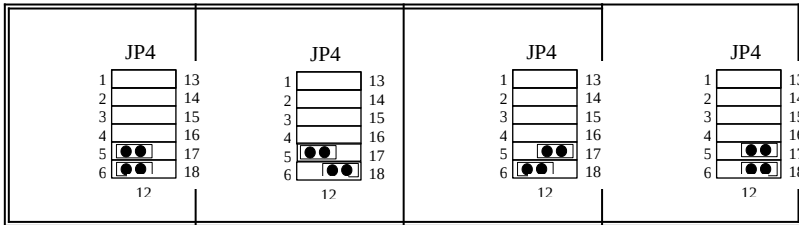
SERIAL PORT (COM2)

COM4 (2E8H)	DISABLED	COM2 (2F8H) ♣
JP4 	JP49 	JP49 

PRINTER PORT

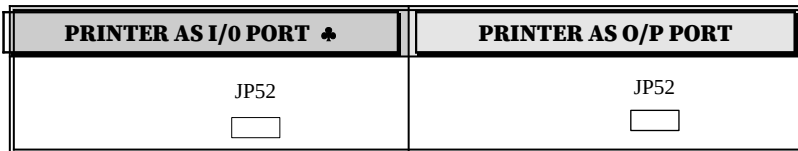
LPT2 (278H)	LPT3 (3BCH)	DISABLED	LPT1 (378H) ♣



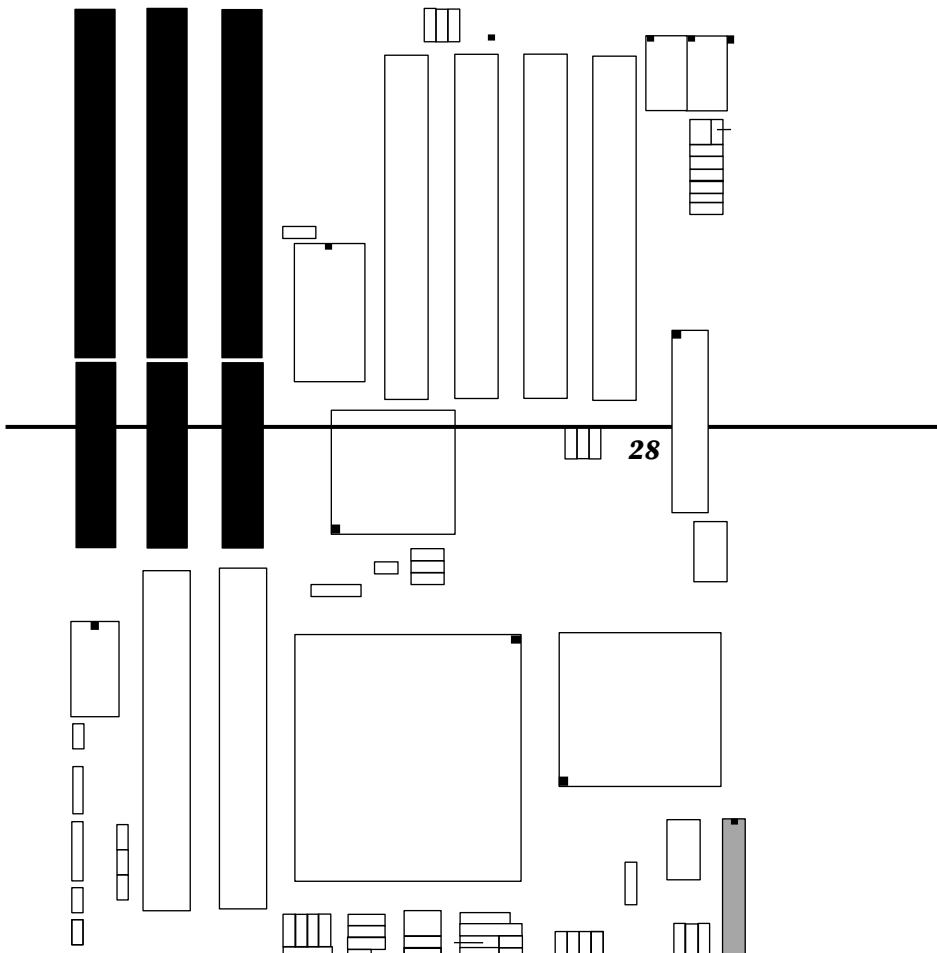


♣ Default Setting

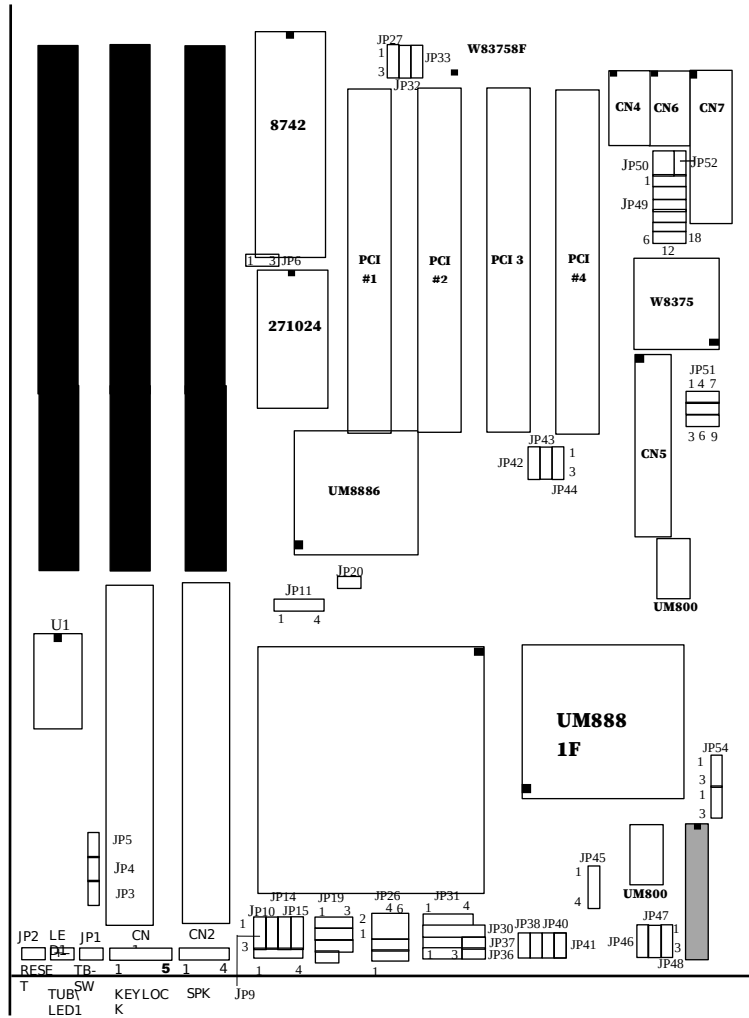
PRINTER PORT (CN7)



♣ Default Setting



2.4 OTHER JUMPER INSTALLATION



OTHER JUMPER DESCRIPTION

JUMPER	DESCRIPTION
JP1	TURBO SWITCH
JP2	RESET SWITCH

CONNECTOR DESCRIPTION

CONNECTOR	SIGNAL NAME
CN1	KEY LOCK
CN2	SPEAKER CONNECTOR
CN4	COM2
CN5	FDC
CN6	COM1
CN7	PRINTER PORT
LED1	TURBO LED

CHAPTER 3

SYSTEM BIOS SETUP

Use the EXP8046 to record changes in your hardware and to control its special features. The Setup program uses a number of menus in which you can specify changes to your hardware and turn the special features on or off.

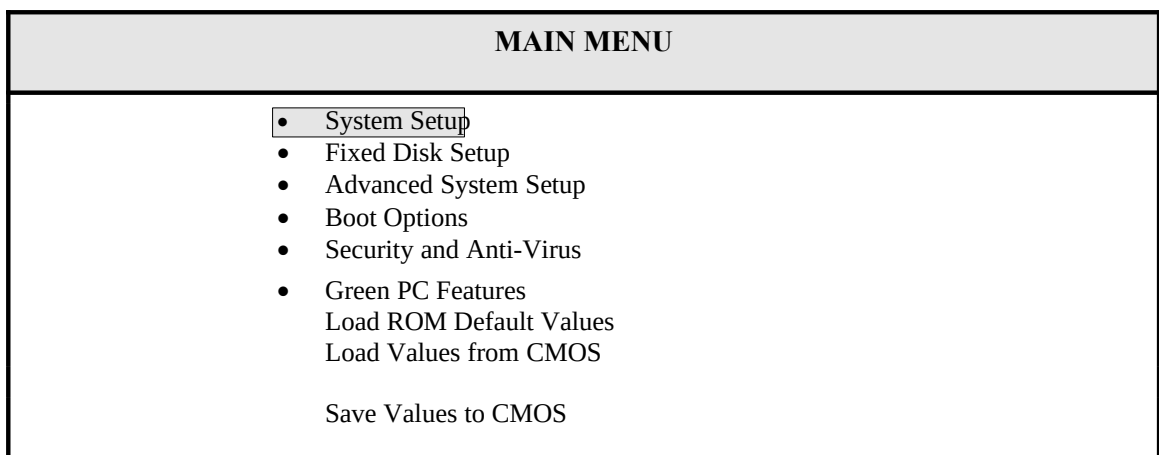
To start the EXP8046 Setup program, take the following steps:

1. Turn on or reboot your system. The Phoenix Bios for EXP8046 displays this message:

Press to enter SETUP

2. The Main Menu which looks like this appears:

Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.



↓ Move F10 Save & Exit	Enter Select	F1 Help ESC Exit
---------------------------	--------------	------------------

3. Select an option by moving the highlight with your up-and-down arrow keys and pressing <Enter>.
4. After making your changes, select Save Values to CMOS to make them operative. Press <Esc> to exit the setup program. The following pages describe each one of these selections.

3.1 THE SYSTEM SETUP MENU

Selecting "System Setup" on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.

SYSTEM SETUP			
System Time:		[14:14:49]	
System Date:		[08/01/1994]	
Video System:		[EGA / VGA]	
System Memory:		640 KB	
xtended Memory:		7168 KB	
Diskette Drive A:		[1.2 MB, 5 1/4"]	
Diskette Drive B:		[1.44 MB, 3 1/2"]	
↓ Move	ESC Exit	PgUp Previous Value	F5 Previous Configuration
	F1 Help	PgDn Next Value	F6 Default Configuration

3.2 FIXED DISK SETUP

Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.

MAIN MENU		
•	System Setup	
•	Fixed Disk Setup	
•	Advanced System Setup	
•	Boot Options	
•	Security and Anti-Virus	
•	Green PC Features	
	Load ROM Default Values	
	Load Values from CMOS	
	Save Values to CMOS	
↓ Move	Enter Select	F1 Help ESC Exit
F10	Save & Exit	

Selecting "Fixed Disk Setup" on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.

FIXED DISK SETUP		
Fixed Disk	0	Control (Boot Drive)
Fixed Disk	1	Control
Fixed Disk	2	Control
Fixed Disk	3	Control
↓ Move	Enter Select	
F1 Help	ESC Exit	F10 Save & Exit

Selecting either option and pressing <Enter> displays a menu like this:

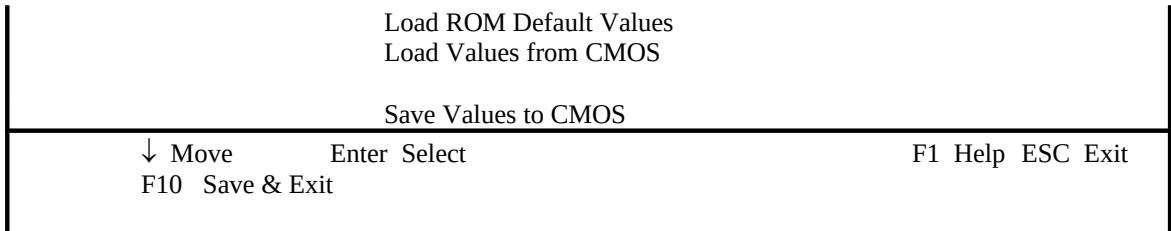
Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.

FIXED DISK 0 CONTROL (BOOT DRIVE)	
Autotype Fixed Disk:	[Press Enter]
Type:	[User] 545 MB
Cylinders:	[1057]
Heads:	[16]
Sectors/Track:	[63]
Landing Zone:	[1057]
Write Precomp:	[None]
Multi-Sector Transfers:	[Disabled]
LBA Mode Control:	[Disabled]
Physical Drive:	[Default]
↓ Move	Enter Select
F1 Help	ESC Exit F10 Save & Exit

3.3 ADVANCED SYSTEM SETUP

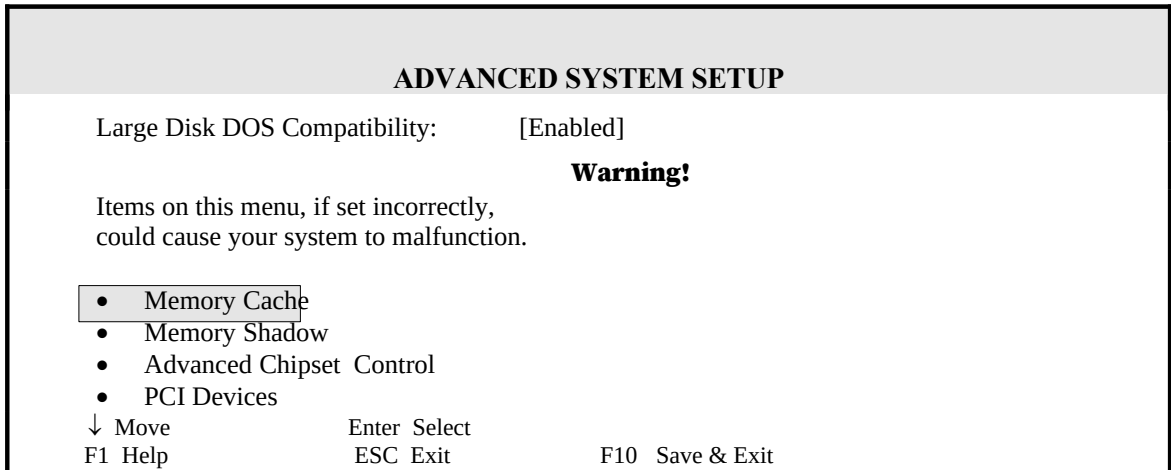
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MAIN MENU
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features



Selecting "Advanced System Setup" from the Main Menu displays the following menu:

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Choose an option and press <Enter>. See the following pages for a description of each feature and its options.

3.3.1 MEMORY CACHE

EXP8046 User's Manual

Selecting "Memory Cache" from the Advanced Setup menu displays a menu like the one shown here. The actual features displayed depend on the capabilities of your system's hardware.

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MEMORY CACHE	
External Cache:	[Enabled]
System BIOS Shadow:	[Non-Cacheable]
Video BIOS Shadow:	[Non-Cacheable]
L2 Cache Write Back:	[Enabled]
Cache Speed:	[AUTO]
CPU Cache Policy:	[Write Back]
L2 Cache Tag Length:	[7 Bits]
↓ Move	ESC Exit
	F1 Help
PgUp Previous Value	F5 Previous Configuration
PgDn Next Value	F6 Default Configuration

3.3.2 MEMORY SHADOW

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ADVANCED SYSTEM SETUP	
Large Disk DOS Compatibility:	[Enabled]

Warning!		
Items on this menu, if set incorrectly, could cause your system to malfunction.		
<ul style="list-style-type: none"> • Memory Cache • Memory Shadow • Advanced Chipset Control • PCI Devices 		
↓ Move	Enter Select	
F1 Help	ESC Exit	F10 Save & Exit

Selecting "Memory Shadow" from the Advanced Setup menu displays a menu like the one shown here. The actual features displayed depend on the capabilities of your system's hardware.

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MEMORY SHADOW				
System Shadow:				[Enabled]
Video Shadow:				[Enabled]
System Shadow Regions:				
	C800 - CBFF			[Disabled]
	CC00 - CFFF			[Disabled]
	D000 - D3FF			[Disabled]
	D400 - D7FF			[Disabled]
	D800 - DBFF			[Disabled]
	DC00 - DFFF			[Disabled]
↓ Move	ESC Exit	PgUp Previous Value	F5 Previous Configuration	
	F1 Help	PgDn Next Value	F6 Default Configuration	

3.3.3 ADVANCED CHIPSET CONTROL

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ADVANCED SYSTEM SETUP

Large Disk DOS Compatibility: [Enabled]

Warning!

Items on this menu, if set incorrectly,
could cause your system to malfunction.

- Memory Cache
- Memory Shadow
- Advanced Chipset Control
- PCI Devices

↓ Move Enter Select
F1 Help ESC Exit F10 Save & Exit

Selecting "Advanced Chipset Control" from the Advanced Setup menu displays a menu like the one shown here.

Technicians use this menu to change the values in the chipset registers and optimize your system's performance.

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ADVANCED CHIPSET CONTROL	
DRAM ReadWait State:	[AUTO]
DRAM Write Wait State:	[AUTO]
Resource Lock for DRAM:	Disabled]
Residence of VGA Card:	[Always VL Bus]
Host-to-pci Wait State:	[1]
PCI Parity Check:	[Disabled]
DRAM Parity Check:	[Disabled]
LDEV # Sampling Point:	[AUTO]
PCI Item Selection	
IRQ3 Trigger:	[Edge]
IRQ4 Trigger:	[Edge]
IRQ5 Trigger:	[Edge]
IRQ6Trigger:	[Edge]
IRQ7 Trigger:	[Edge]
IRQ8Trigger:	[Edge]
IRQ9 Trigger:	[Edge]
IRQ10 Trigger:	[Edge]
IRQ11 Trigger:	[Edge]
IRQ12 Trigger:	[Edge]
IRQ13 Trigger:	[Edge]
IRQ14 Trigger:	[Edge]
IRQ15 Trigger:	[Edge]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration F1 Help PgDn Next Value F6 Default Configuration	

NOTE: The contents of this menu depends on the chipset installed on your motherboard, and chipsets vary widely. Consult your dealer or the <F1> help screens before changing the items on this menu. Incorrect settings can cause your system to malfunction.

3.3.4 PCI DEVICES

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ADVANCED SYSTEM SETUP		
Large Disk DOS Compatibility:	[Enabled]	
Warning!		
Items on this menu, if set incorrectly, could cause your system to malfunction.		
<ul style="list-style-type: none">• Memory Cache• Memory Shadow• Advanced Chipset Control• PCI Devices		
↓ Move F1 Help	Enter Select ESC Exit	F10 Save & Exit

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PCI DEVICES	
PCI Bridge:	
(HCLK PCICLK):	[AUTO]
Bus Park:	[Disabled]
Bus Lock:	[Disabled]
Keyboard Clock:	[AUTO]
PCI-ISA BCLK Divider:	[AUTO]
IO Recovery(BCLK):	[4]
Base I/O Address:	[3000]
Base Memory Address	[0010000000]
Multimedia Mode:	[Enabled]

Parity: [Enabled]
 PCI INTA# cycle: [Single]

PCI DEVICES

PCI INTB# cycle: [Single]
 PCI INTC# cycle: [Single]
 PCI INTD# cycle: [Single]

PCI Device, Slot #1:
 Enable Device: [Disabled]
 Enable Master: [Disabled]
 PCI INTB#: [None]
 Use Default Latency Timer Value: [Yes]
 Latency Timer Value: [0040]

PCI Device, Slot #2:
 Enable Device: [Disabled]
 Enable Master: [Disabled]
 PCI INTC#: [None]
 Use Default Latency Timer Value: [Yes]
 Latency Timer Value: [0040]

PCI Device, Slot #3:
 Enable Device: [Enabled]
 Enable Master: [Enabled]
 PCI INTA#: [14]
 Use Default Latency Timer Value: [Yes]
 Latency Timer Value: [0040]

PCI Device, Slot #4:
 Enable Device: [Disabled]
 Enable Master: [Disabled]
 PCI INTD#: [None]
 Use Default Latency Timer Value: [Yes]
 Latency Timer Value: [0040]

↓ Move	ESC Exit	PgUp Previous Value	F5 Previous Configuration
F1 Help	PgDn Next Value	F6 Default Configuration	

NOTE: The number of PCI device slots depend on motherboard specifications.

3.4 BOOT OPTIONS

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MAIN MENU		
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features		
Load ROM Default Values		
Load Values from CMOS		
Save Values to CMOS		
↓ Move	Enter Select	F1 Help ESC Exit
F10 Save & Exit		

Selecting "Boot Options" from the Main Menu displays this menu:

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BOOT OPTIONS	
Disk Boot Drive Sequence:	[C; then A:]
Floppy Seek:	[Enabled]

↓ Move	ESC Exit F1 Help	PgUp Previous Value PgDn Next Value	F5 Previous Configuration F6 Default Configuration
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3.5 SECURITY AND ANTI-VIRUS

Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.

MAIN MENU		
<ul style="list-style-type: none"> • System Setup • Fixed Disk Setup • Advanced System Setup • Boot Options • Security and Anti-Virus • Green PC Features 		
Load ROM Default Values Load Values from CMOS Save Values to CMOS		
↓ Move F10 Save & Exit	Enter Select	F1 Help ESC Exit

Selecting "Security and Anti-Virus" from the Main Menu displays a menu like this:

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SECURITY AND ANTI-VIRUS

Supervisor Password is:	Disabled		
User Password is	Disabled		
Set Supervisor Password	[Press Enter]		
Set User Password	[Press Enter]		
Password on Boot	[Disabled]		
Diskette Access:	[Supervisor]		
Fixed Disk Boot Sector	[Normal]		
↓ Move	Enter Set/Change Password	PgUp Previous Value	F5 Previous Configuration
F1 Help	ESC Exit	PgDn Next Value	F6 Default Configuration

"Supervisor Password is:" shows whether supervisor password is set or not. "User Password is:" shows whether user password is set or not. Setting Supervisor Password requires a password on entering Setup. The passwords are not case sensitive. Pressing <Enter> at either Set Supervisor Password or Set User Password displays a dialog box like this:

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SET SUPERVISOR PASSWORD	
Enter New Password -	[]
Re-enter New Password -	[]

Type the password and press <Enter>. Repeat.

Anti-Virus" from the Main Menu displays a menu like this:

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SECURITY AND ANTI-VIRUS	
Supervisor Password is:	Disabled
User Password is	Disabled
Set Supervisor Password	[Press Enter]

Set User Password	[Press Enter]		
Password on Boot	[Disabled]		
Diskette Access:	[Supervisor]		
Fixed Disk Boot Sector	[Normal]		
↓ Move	Enter Set/Change Password	PgUp	Previous Value
Configuration		F5	Previous
F1 Help	ESC Exit	PgDn	Next Value
		F6	Default Configuration

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SET USER PASSWORD	
Enter New Password -	[]
Re-enter New Password -	[]

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SECURITY AND ANTI-VIRUS	
Supervisor Password is:	Enabled
User Password is	Enabled
Set Supervisor Password	[Press Enter]
Set User Password	[Press Enter]
Password on Boot	[Enabled]
Diskette Access:	[Supervisor]
Fixed Disk Boot Sector	[Normal]

EXP8046 User's Manual

↓ Move	Enter Set/Change Password	PgUp Previous Value	F5 Previous
F1 Help	ESC Exit	Configuration PgDn Next Value	F6 Default Configuration

NOTE: Before setting User Password, The Supervisor Password has to be set first.

3.6 GREEN PC FEATURES

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MAIN MENU	
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features	
Load ROM Default Values	
Load Values from CMOS	
Save Values to CMOS	

↓ Move Enter Select
F10 Save & Exit

F1 Help ESC Exit

Selecting Green PC Features on the main menu displays an information window like this:

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GREEN PC FEATURES	
Power Saving Mode:	[Enabled]
System Doze Timer:	[15 sec]
System Standby Timer:	[2 min]
System Suspend Timer:	[2 min]
Wakeup system during suspend:	[Disabled]
Wakeup time AT(hour):	[0 hr]
(minute): [0 min]	
VGA with Power Down Features	[None]
Non -SMI CPU Support:	[Gennerate IRQ15]
Wakeup time AT	
IDE Hard Disk Standby Timer:	[Disabled]
Advanced Power Management Setup	
System enters Doze/Standby modes by:	
VGA Access Event:	[Off]
Hard Disk Access Event:	[On]
Floppy Access Event:	[On]
Keyboard Access Event:	[On]
COM Access Event:	[On]
LPT Access Event:	[Off]
ISA Masster Access Event:	[Off]
PCI Masster 0 Access Event:	[On]
PCI Masster1 Access Event:	[On]
PCI Masster2 Access Event:	[On]

EXP8046 User's Manual

PCI Masster3 Access Event:	[On]
I/O Region Access Event:	[On]
Monitored I/O Address:	[0000H]
Mask I/O Address:	[0000H]
System Wakeup from Suspend Modes by:	
IRQ1 (Keyboard):	[On]
IRQ3 (COM2):	[On]
IRQ4 (COM1):	[On]
IRQ5(Alt. Printer):	[Off]
IRQ7(Printer):	[Off]
IRQ9(IRQ2 Redir):	[Off]
IRQ10(Reserved):	[Off]
IRQ11(Reserved):	[Off]
IRQ12(PS/2 Mouse):	[On]
IRQ15(Reserved):	[Off]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration F1 Help PgDn Next Value F6 Default Configuration	

The information in this window is for display only. Press <Esc> to exit to the Main Menu.

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GREEN PC FEATURES	
ISA MASTER/DMA:	[Off]
PCI Master1 Access Event:	[Off]
PCI Master2 Access Event:	[Off]
PCI Master3 Access Event:	[Off]
PCI Master4 Access Event:	[Off]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration F1 Help PgDn Next Value F6 Default Configuration	

Phoenix BIOS Setup - Copyright 1992-94 Phoenix Technologies Ltd.

MAIN MENU					
<ul style="list-style-type: none">• System Setup• FiAd• Bo• Se• Gre	<table border="1"><tr><td>Warning!</td></tr><tr><td>Save and exit?</td></tr><tr><td>[Yes] [No]</td></tr></table>	Warning!	Save and exit?	[Yes] [No]	<p>P</p> <p>rus</p>
Warning!					
Save and exit?					
[Yes] [No]					
<p>Load ROM Default Values Load Values from CMOS</p> <p><input type="button" value="Save Values to CMOS"/></p>					
<p>↓ Move F10 Save & Exit</p>	<p>Enter Select</p>	<p>F1 Help ESC Exit</p>			

RMA FORM

When the motherboard can not work well, please fill up this form to describe related situations. If the space is not enough to use, you can attach separate paper.

MODEL:

MODEL NO:

HARDWARE

CPU: Brand _____, Model _____, Speed _____ MHz

CO-PROCESSOR: Brand _____, Model _____, Speed _____ MHz

SIMM: Brand _____, Speed _____ ns, Q'ty _____ pcs, Total _____ MB

CACHE: Brand _____, Speed _____ ns, Total _____ K

TAG RAM: Brand _____, Speed _____ ns

BIOS DATE CODE: _____

SYSTEM SPEED RUNNING _____ MHz

VIDEO CARD: Chip _____, RAM _____, VGA Mode _____
Bus _____ (ISA, VESA or PCI)

OTHER ADD-ON CARDS:

SOFTWARE

OPERATING SYSTEM _____ VERSION _____

SOFTWARE PROGRAM _____

BIOS SETUP: DRAM Wait State _____ CACHE Wait State _____

If you change BIOS SETUP, please describe the changes:

<A> ERROR

- HANG UP NO SCREEN FLOPPY R/W ERROR
 HARD DISK R/W ERROR PARITY MEMORY ERROR
 OTHER _____

 ERROR MESSAGES ON YOUR SCREEN (PLEASE SHOW US THE WHOLE SENTENCE)

<C> PROBLEM DESCRIPTION