

# MV035 OPTi Motherboard

## Introduction

This manual is designed to provide the basic necessary information for the end user to understand and properly use the MV035 mainboard. The main board ensures superlative performance and complete compatibility with industry standards, which incorporating many technical enhancements.

### Trademarks

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### Checklist

Your MV035 package contains the following:

1. MV035 mainboard
2. User's manual

## Precautions

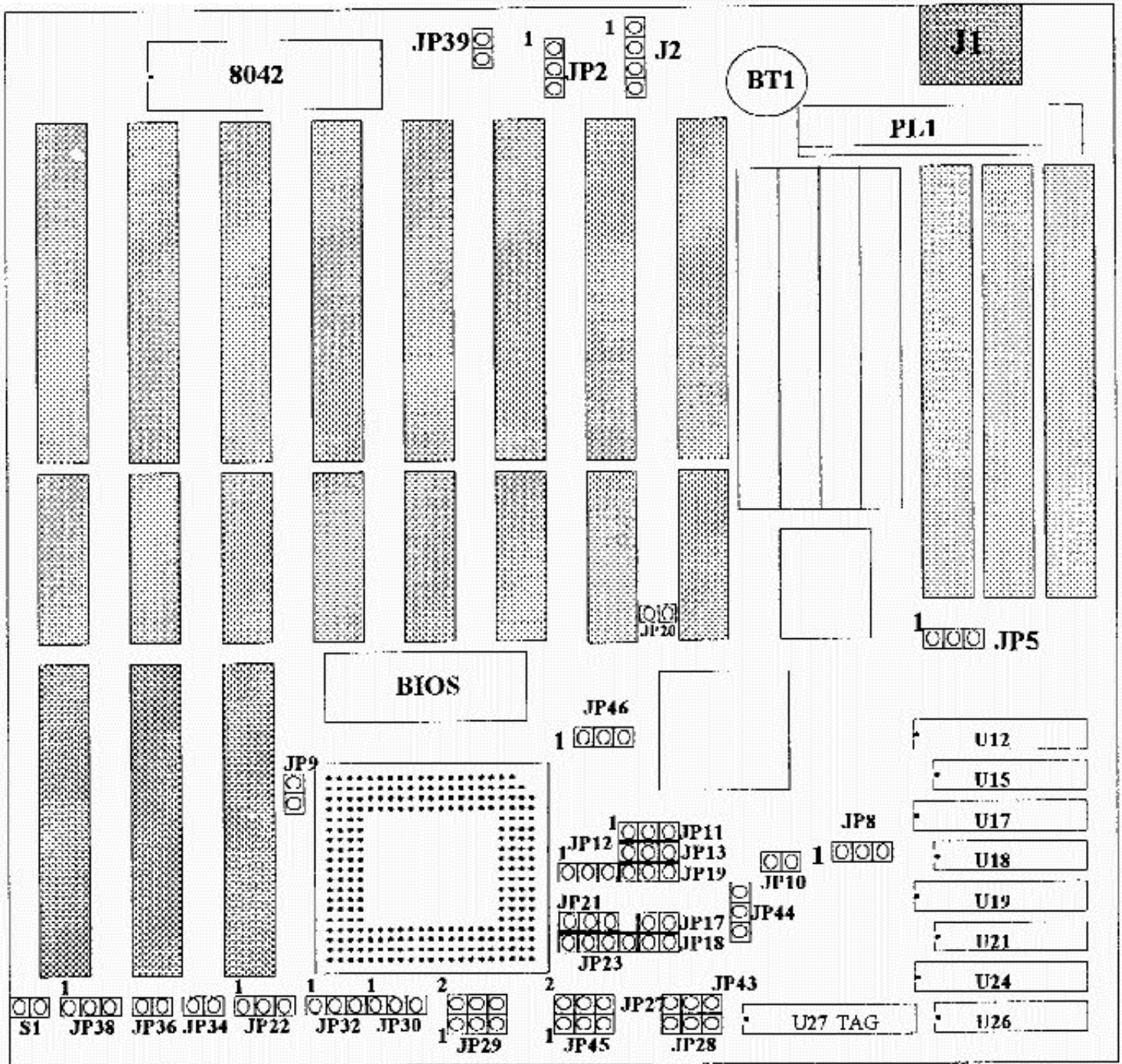
Make sure you ground yourself before handling the main board or other system components. Electrostatic discharge will damage the mainboard. Note that you must take special precaution when handling the mainboard in dry or air- conditioned environments.

The precaution below is to protect the mainboard from electrostatic discharge.

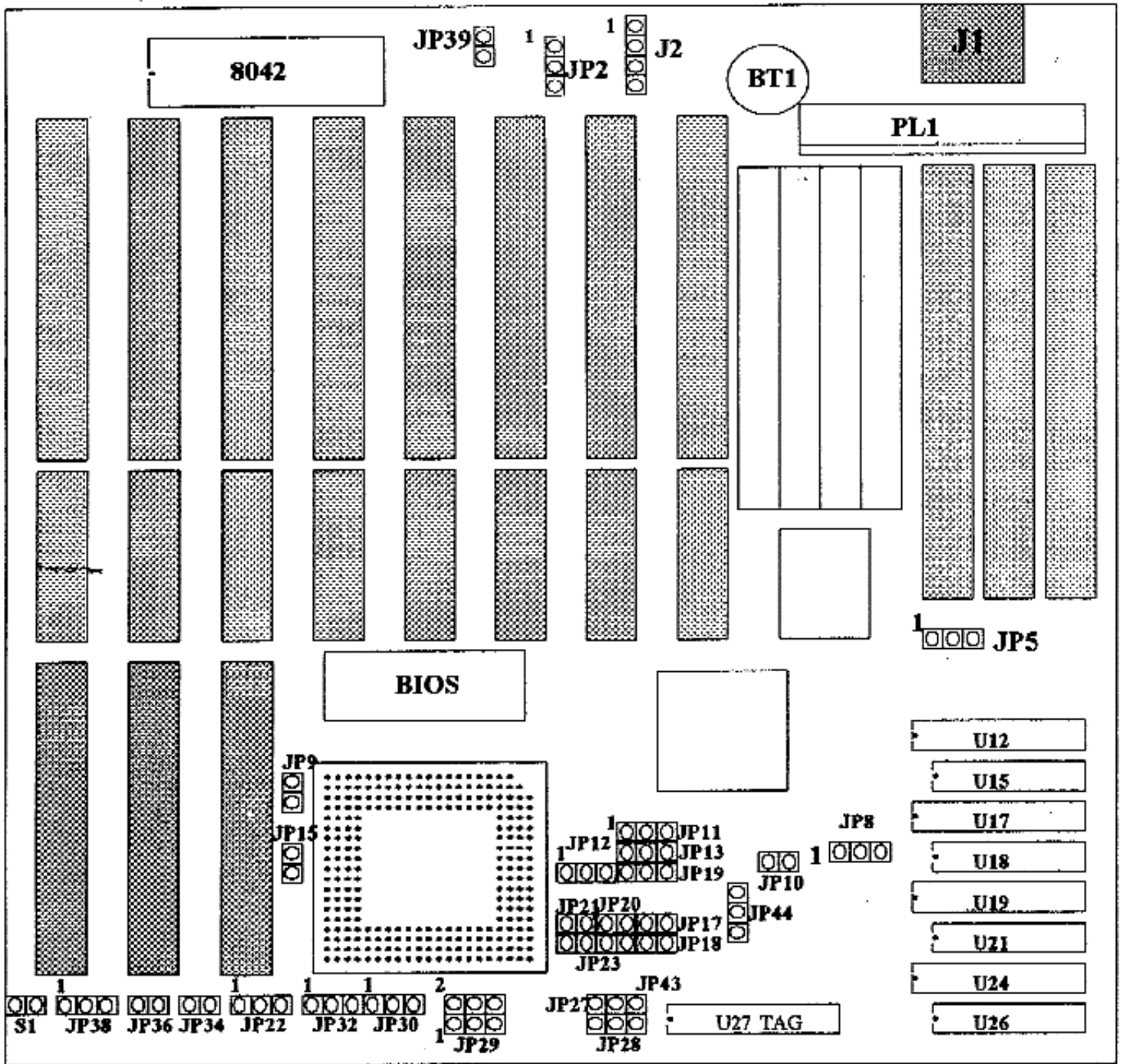
1. Do not remove the anti-static packaging until you are ready to install the mainboard and other system components.
2. Ground yourself before removing any system component from its protective anti-static packaging. To ground yourself, grasp the expansion slot covers or other unpainted portion computer chassis.
3. Frequently ground yourself while working, or use a grounding strap.
4. Handle the mainboard by the edges and avoid touching its components.

# Motherboard Layout

## MV035 and MV035 REV.F Jumper Layout



MV035 REV. C and D Jumper Layout



# JUMPERS AND CONNECTORS REFERENCE

Before installing the mother board, make sure the jumpers setting are set for your configuration. The Function of each jumpers are as follows:

CPU Type Selector	JP9,JP11,JP12,JP13,JP23,JP32
AMD None Enhance DX2-80/DX4-100	JP19
P24D Write Back/Write Through	JP19
SL-Enhanced CPU Selector	JP10,JP12,JP20,JP21
P24C Or AMD Enhance DX2-80/DX4-100	JP30
CPU Voltage Selector	JP29
Clock Generator Frequency Selector	JP17,JP18
CACHE Option	JP8,JP27,JP28,JP43,JP44
Charge/Discharge CMOS	JP2
CRT Power Down	JP39
Speaker Connector	JP38
Turbo Switch Connector	JP36
Turbo LED Connector	JP34
Reset Switch Connector	S1
External Battery Connector	J2
Memory Selector	JP5
Keyboard Connector	J1
Power Supply Connector	PL1
Keylock / Power LED Connector	J22

## NOTE:

Red Jumpers	Represent Voltage Selector
White Jumpers	Represent CPU Type
Yellow Jumpers	Represent Clock Selector
Blue Jumpers	Represent Cache Option
Black Jumpers	Represent Other Option

## JUMPER SETTINGS

**Note: Before setup the jumper, please make sure you have correct CPU voltage setup.**

VOLTAGE	JP29
FOR 5 VOLT	1-3, 2-4
FOR 3 VOLT	3-5, 4-6

VOLTAGE	JP45(only available on MV035 and REV.F)
FOR 3.3 VOLT	1-2
FOR 3.45 VOLT	3-4
FOR 4.0 VOLT	5-6

FOR MV035 and MV035 REV.F

CPU type	INTEL DX	INTEL enhance DX2	INTEL P24C	INTEL P24T	INTEL P24D	AMD DX2	AMD DX4	AMD enhance DX2/DX5	AMD enhance DX4	Cyrix DX2/DX4	Cyrix CX586
JP9	open	open	open	open	open	open	open	open	open	close	close
JP10	open	close	close	close	close	open	open	close	close	close	close
JP11	1-2	1-2	1-2	2-3	2-3	1-2	1-2	2-3	2-3	2-3	2-3
JP12	open	1-2	1-2	1-2	1-2	open	open	1-2	1-2	2-3	2-3
JP13	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	open	open
JP19	open	open	open	open	1-2	2-3	1-2	1-2	1-2	open	1-2
JP20	open	close	close	close	close	open	open	close	close	close	close
JP21	open	1-2	1-2	1-2	1-2	open	open	1-2	1-2	2-3	1-2
JP23	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP29	1-3,2-4	1-3,2-4	3-5,4-6	1-3,2-4	1-3,2-4	3-5,4-6	3-5,4-6	3-5,4-6	3-5,4-6	3-5,4-6	3-5,4-6
JP30	open	open	open	open	open	open	open	1-2	open	open	open
JP32	open	open	open	2-3	2-3	open	open	2-3	2-3	1-2	2-3
JP45	open	open	1-2	open	open	3-4	3-4	3-4	3-4	3-4	3-4
JP46	open	1-2	1-2	1-2	1-2	open	open	1-2	1-2	2-3	2-3

FOR MV035 REV. C and REV.D

CPU type	INTEL DX	INTEL enhance DX2	INTEL P24C	INTEL P24T	INTEL P24D	AMD DX2	AMD DX4	AMD enhance DX2/DX5	AMD enhance DX4	Cyrix DX2/DX4	Cyrix CX586
JP9	open	open	open	open	open	open	open	open	open	close	open
JP10	open	close	close	close	close	open	open	close	close	open	open
JP11	1-2	1-2	1-2	2-3	2-3	1-2	1-2	1-2	1-2	2-3	2-3
JP12	open	1-2	1-2	1-2	1-2	open	open	1-2	1-2	2-3	open
JP13	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2
JP15	open	open	open	close	close	open	open	open	open	open	close
JP19	open	open	open	open	1-2	2-3	1-2	1-2	1-2	open	1-2
JP20	open	close	close	close	close	open	open	close	close	open	open
JP21	open	close	close	close	close	open	open	close	close	open	open
JP23	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP29	1-3,2-4	1-3,2-4	3-5,4-6	1-3,2-4	1-3,2-4	3-5,4-6	3-5,4-6	3-5,4-6	3-5,4-6	3-5,4-6	3-5,4-6
JP30	open	open	open	open	open	open	open	1-2	open	open	open
JP32	open	open	open	2-3	2-3	open	open	open	open	open	2-3

### CPU Clock Frequency(Yellow Jumper Cap)

	25 MHz	33 MHz	40 MHz	50 MHz
JP17	open	close	close	open
JP18	open	close	open	close

### CACHE Memory Configuration(Blue Jumper Cap)

	128 KB	256 KB	256 KB	256 KB	512 KB
JP8	1-2	2-3	2-3	1-2	1-2
JP27	close	close	close	close	close
JP28	open	close	close	close	close
JP43	open	open	open	close	close
JP44	1-2	2-3	1-2	2-3	1-2
TYPE	32K*8	32K*8	32K*8	64K*8	128K*8
TAG	8K*8	16K*8	32K*8	16K*8	32K*8
BANK	1 BANK	2 BANK	2 BANK	1 BANK	1 BANK

### Others (Black Jumper Cap)

Jumper	Setting	Function
JP2	1-2	Discharge CMOS(Note: All data in the CMOS will be erase.)
	2-3	Charge CMOS
JP5	1-2	72 pins Simm Module as Bank 0
	2-3	30 pins Simm Module as Bank 0
JP30	OPEN	3 x clock for Intel 24X and AMD CPU
	1-2	2 x clock for Intel 24C and AMD enhance CPU
JP36	OPEN	Normal Speed
	CLOSE	Turbo Speed
JP39		CRT Power Down
J1		Keyboard Connector
J2		External Battery Connector(Pin 1 for + Pin 4 for -)
PL1		Power Supply Connector
JP46	1-2	Intel/AMD SMI(only available on MV035 and REV.F)
JP46	2-3	Cyrix SMI(only available on MV035 and REV.F)



# MEMORY CONFIGURATION

The system board Memory can be expanded from 2MB to 128MB. Memory can be installed by using 256K, 512K, 1M, 2M, 4M, 8M and 16M\* 32/36 BITS SIMM RAM Module.

Memory Size	30 PIN/Simm 0	72 PIN/Simm 1	72 PIN/Simm 2	72 PIN/Simm 3
2 MB	256K * 9	256K * 36/32	None	None
	None	512K * 36/32	None	None
4 MB	1 MB * 9	None	None	None
	None	1 MB * 36/32	None	None
8 MB	1 MB * 9	1 MB * 36/32	None	None
	None	2 MB * 36/32	None	None
16 MB	4 MB * 9	None	None	None
	None	4 MB * 36/32	None	None
	1 MB * 9	1 MB * 36/32	1 MB * 36/32	1 MB * 36/32
	None	2 MB * 36/32	2 MB * 36/32	None
32 MB	4 MB * 9	4 MB * 36/32	None	None
	None	4 MB * 36/32	4 MB * 36/32	None
64 MB	None	16 MB * 36/32	None	None
	4 MB * 9	4 MB * 36/32	4 MB * 36/32	4 MB * 36/32
128 MB	None	16 MB * 36/32	16 MB * 36/32	None

NOTE: SIMM1 and SIMM2 is used for DOUBLE SIDED SIMM Module. Set JP5 1-2

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