Appendix C

Jumper Table Summary

Setting the CPU Voltage

S4	S5	S6	S7	S8	Vcore
ON	ON	ON	ON	OFF	3.52V
OFF	ON	ON	ON	OFF	3.45V
ON	OFF	ON	ON	OFF	3.3V
OFF	OFF	ON	ON	OFF	3.2V
ON	OFF	OFF	ON	OFF	2.9V
OFF	OFF	OFF	ON	OFF	2.8V
OFF	ON	OFF	OFF	OFF	2.2V
OFF	ON	OFF	ON	ON	1.8V

SW1 is used to select CPU core voltage (Vcore) and ratio, there are totally eight switches on this DIP. After installing a CPU, remember to set the switch 4-8 to specify a proper Vcore.

JP12	I/O Voltage (Vio)
1-2	3.3V (default)
3-4	3.43V

Warning: *Please make sure that you have installed CPU fan properly if Intel PP/MT-233 or AMD K6 CPU is being selected to use. It may cause your system unstable if you can not meet the heat dissipation requirement from above CPU type. It is recommended to adopt larger fan on these CPU for better air flow in the system. Please refer to AOpen's web site (http://www.aopen.com.tw) to choose a proper CPU fan.*

Warning*: If your CPU is IDT C6, note that this processor supports one of two voltage range, 3.135 ~ 3.465V (3.45V) and 3.45 ~ 3.6V (3.52V). See the CPU specification to set the correct voltage.*

CPU	Type	S4	S5	S6	S7	S8	Vcore

Jumper Table Summary

INTEL P54C	Single Voltage	OFF	ON	ON	ON	OFF	3.45V
INTEL MMX P55C	Dual Voltage	OFF	OFF	OFF	ON	OFF	2.8V
AMD K5	Single Voltage	ON	ON	ON	ON	OFF	3.52V
AMD K6-166/200	Dual Voltage	ON	OFF	OFF	ON	OFF	2.9V
AMD K6-233	Dual Voltage	OFF	OFF	ON	ON	OFF	3.2V
AMD K6-266/300	Dual Voltage	OFF	ON	OFF	OFF	OFF	2.2V
Cyrix 6x86	Single Voltage	ON	ON	ON	ON	OFF	3.52V
Cyrix 6x86L	Dual Voltage	OFF	OFF	OFF	ON	OFF	2.8V
Cyrix M2	Dual Voltage	ON	OFF	OFF	ON	OFF	2.9V
IDT C6	Single Voltage	ON ON	ON OFF	ON ON	ON ON	OFF OFF	3.52V 3.3V

Selecting the CPU Frequency

S1	**S2**	**S3**	**CPU Frequency Ratio**
OFF	OFF	OFF	1.5x (3.5x)
ON	OFF	OFF	2x
ON	ON	OFF	2.5x (1.75x)
OFF	ON	OFF	3x
ON	OFF	ON	4x
ON	ON	ON	4.5x
OFF	ON	ON	5x

The ratio of Core/Bus frequency is selected by the switch 1-3 of **SW1**.

JP6	**JP5**	**JP4**	**SDRAM**	**PCI**	**AGP**
2-3	2-3	2-3	60MHz	30MHz	60MHz
1-2	2-3	2-3	66MHz	33MHz	66MHz
2-3	2-3	1-2	75MHz	32MHz	64MHz
1-2	1-2	2-3	75MHz	37MHz	75MHz
1-2	2-3	1-2	83MHz	32MHz	64MHz
2-3	1-2	1-2	90MHz	30MHz	60MHz
1-2	1-2	1-2	100MHz	33MHz	66MHz

Warning: *SIS 5591 chipset supports maximum 83MHz external CPU bus clock, the 90MHz and 100MHz settings are for internal test only, set to 90MHz or 100MHz exceeds the specification of*

5591 chipset, which may cause serious system damage.

Note: *Intel PP/MT MMX 233MHz is using 1.5x jumper setting for 3.5x frequency ratio, and AMD PR166 is using 2.5x setting for 1.75x frequency ratio.*

INTEL Pentium	**CPU Core Frequency**	**Ratio**	**External Bus Clock**	**S1**	**S2**	**S3**	**JP6 & JP5 & JP4**
P54C 90	90MHz =	1.5x	60MHz	OFF	OFF	OFF	2-3 & 2-3 & 2-3
P54C 100	100MHz =	1.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3
P54C 120	120MHz =	2x	60MHz	ON	OFF	OFF	2-3 & 2-3 & 2-3
P54C 133	133MHz =	2x	66MHz	ON	OFF	OFF	1-2 & 2-3 & 2-3
P54C 150	150MHz =	2.5x	60MHz	ON	ON	OFF	2-3 & 2-3 & 2-3
P54C 166	166MHz =	2.5x	66MHz	ON	ON	OFF	1-2 & 2-3 & 2-3
P54C 200	200MHz =	3x	66MHz	OFF	ON	OFF	1-2 & 2-3 & 2-3

INTEL Pentium MMX	**CPU Core Frequency**	**Ratio**	**External Bus Clock**	**S1**	**S2**	**S3**	**JP6 & JP5 & JP4**
PP/MT 150	150MHz =	2.5x	60MHz	ON	ON	OFF	2-3 & 2-3 & 2-3
PP/MT 166	166MHz =	2.5x	66MHz	ON	ON	OFF	1-2 & 2-3 & 2-3
PP/MT 200	200MHz =	3x	66MHz	OFF	ON	OFF	1-2 & 2-3 & 2-3
PP/MT 233	233MHz =	3.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3

AMD K5	**CPU Core Frequency**	**Ratio**	**External Bus Clock**	**S1**	**S2**	**S3**	**JP6 & JP5 & JP4**
PR90	90MHz =	1.5x	60MHz	OFF	OFF	OFF	2-3 & 2-3 & 2-3
PR100	100MHz =	1.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3
PR120	90MHz =	1.5x	60MHz	OFF	OFF	OFF	2-3 & 2-3 & 2-3
PR133	100MHz =	1.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3
PR166	116MHz =	1.75x	66MHz	ON	ON	OFF	1-2 & 2-3 & 2-3

AMD K6	**CPU Core Frequency**	**Ratio**	**External Bus Clock**	**S1**	**S2**	**S3**	**JP6 & JP5 & JP4**
PR2-166	166MHz =	2.5x	66MHz	ON	ON	OFF	1-2 & 2-3 & 2-3
PR2-200	200MHz =	3x	66MHz	OFF	ON	OFF	1-2 & 2-3 & 2-3
PR2-233	233MHz =	3.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3
PR2-266	266MHz=	4x	66MHz	ON	OFF	ON	1-2 & 2-3 & 2-3
PR2-300	300MHz=	4.5x	66MHz	ON	ON	ON	1-2 & 2-3 & 2-3

Jumper Table Summary

Cyrix 6x86 & 6x86L	CPU Core Frequency	Ratio	External Bus Clock	S1	S2	S3	JP6 & JP5 & JP4
P150+	120MHz =	2x	60MHz	ON	OFF	OFF	2-3 & 2-3 & 2-3
P166+	133MHz =	2x	66MHz	ON	OFF	OFF	1-2 & 2-3 & 2-3
P200+	150MHz =	2x	75MHz	ON	OFF	OFF	2-3 & 2-3 & 1-2

Cyrix M2	CPU Core Frequency	Ratio	External Bus Clock	S1	S2	S3	JP6 & JP5 & JP4
MX-PR166	150MHz =	2.5x	60MHz	ON	ON	OFF	2-3 & 2-3 & 2-3
MX-PR200	166MHz =	2.5x	66MHz	ON	ON	OFF	1-2 & 2-3 & 2-3
	150MHz=	2x	75MHz	ON	OFF	OFF	2-3 & 2-3 & 1-2
MX-PR233	200MHz =	3x	66MHz	OFF	ON	OFF	1-2 & 2-3 & 2-3
	166MHz=	2x	83.3MHz	ON	OFF	OFF	1-2 & 2-3 & 1-2
MX-PR266	233MHz =	3.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3
MX-PR300	225MHz =	3x	75MHz	OFF	ON	OFF	2-3 & 2-3 & 1-2
	233MHz =	3.5x	66MHz	OFF	OFF	OFF	1-2 & 2-3 & 2-3
	240MHz =	4x	60MHz	ON	OFF	ON	2-3 & 2-3 & 2-3

IDT C6	CPU Core Frequency	Ratio	External Bus Clock	S1	S2	S3	JP6 & JP5 & JP4
C6-150	150MHz =	2x	75MHz	ON	OFF	OFF	2-3 & 2-3 & 1-2
C6-180	180MHz =	3x	60MHz	OFF	ON	OFF	2-3 & 2-3 & 2-3
C6-200	200MHz =	3x	66MHz	OFF	ON	OFF	1-2 & 2-3 & 2-3
C6-225	225MHz =	3x	75MHz	OFF	ON	OFF	2-3 & 2-3 & 1-2
C6-240	240MHz =	4x	60MHz	ON	OFF	ON	2-3 & 2-3 & 2-3

Clear CMOS

JP14	Clear CMOS
1-2	Normal operation (default)
2-3	Clear CMOS