

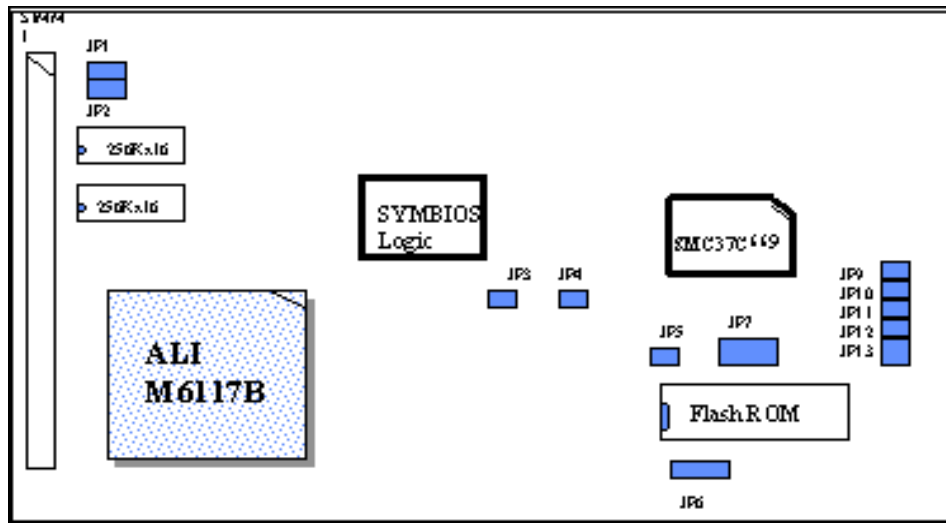
Switches and Connectors NEXCOM

Jumpers and Connectors

This chapter gives the definitions and shows where to locate the positions of jumpers and connectors.

Jumpers

Jumper on the CPU board are used to select options for certain features. To select any option, cover the jumper cap over (short) or remove it from (open) the jumper pins according to the follows instructions.



jumper positions

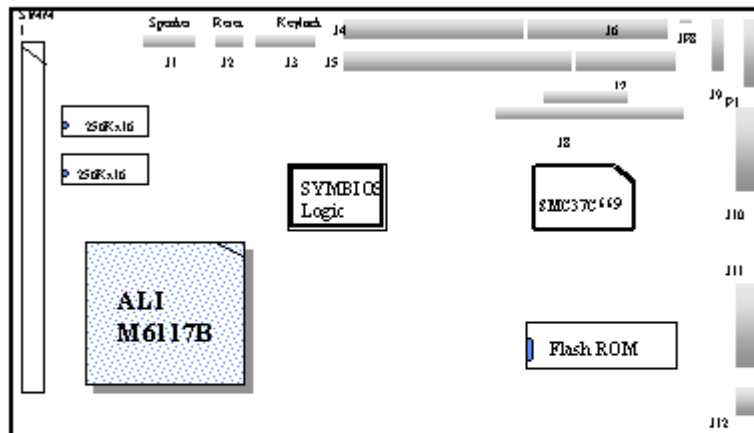
Jumper Setting Table (*: default setup)

DRAM TYPE		
Default 1MB on board		
	*256KBx16 (1MB)	1MBx16 (4MB)
JP1	1-2	2-3
JP2	1-2	2-3
CMOS RAM		
If you want to clear the information stored in the CMOS, then connect 1-2.		
	Clear	* Normal
JP3	1-2	NC
WDT Address		
Default Port F 2		
	* Port F2	Port F6
JP4	1-2	NC
Super I/O		
For each I/O feature like IDE or FDC, it can be disabled through BIOS setting. JP5 is to enable or disable the 37C669 as a whole.		

	Disable	* Enable		
JP5	1-2	NC		
BIOS Type Default +5V flash ROM is used.				
	* +5V Flash ROM	+12V Flash ROM	EPROM	
JP6	2-3	1-2	2-3	
	4-5	4-5		
M-System Address The default address of the disk on chip. If you want the default address for other purpose, just move it away.				
	C0000	C8000	*D0000	D8000
JP7	1-2	3-4	5-6	7-8
RS232/422/485 COM 2 (J10) could be defined as RS422 or 485. Default is RS232.				
	RS232	RS422	RS485	
JP9	1-2	2-3	2-3	
JP10	1-2	2-3	2-3	
JP11	1-2	2-3	2-3	
JP12	1-2	2-3	2-3	
JP13	1-2	3-4	5-6	

Connectors

Connectors on the CPU Board provide interfaces to other devices.



Connector Positions

Connector	Function	Remark
J1	Speaker Connector	
J2	Reset Switch	For hard ware reset
J3	Key lock connector	Pins for key lock and LED

J4	IDE connector	For IDE HDD's
J5	50 pin SCSI connector	For SCSI devices
J6	FDD connector	
J7	Printer connector	
J8	PC 104 connector	
J9	5 pin keyboard connector	
J10	Serial Connector 2	COM 2
J11	Serial Connector 1	COM 1
J12	PS/2 Mini DIN KBD Connector	
JP8	IDE LED Connector	
P1	Power Connector	For stand alone purpose

Pin definitions of connectors

J1: Speaker

PIN No.	Description
1	Speaker signal
2	Ground
3	Ground
4	+5V

J2: Reset Switch

PIN No.	Description
1	Reset
2	GND

J3: Key lock

PIN No.	Description
1	+5V
2	N/C
3	Ground
4	Keylock
5	Ground

J4: IDE Interface Connector

PIN No.	Description	PIN No.	Description
1	Reset#	2	Ground
3	Data 7	4	Data 8
5	Data 6	6	Data 9
7	Data 5	8	Data 10
9	Data 4	10	Data 11
11	Data 3	12	Data 12
13	Data 2	14	Data 13
15	Data 1	16	Data 14

17	Data 0	18	Data 15
19	Ground	20	N/C
21	NC	22	Ground
23	IOW#	24	Ground
25	IOR#	26	Ground
27	IOCHRDY	28	BALE
29	NC	30	Ground
31	Interrupt	32	IO 16#
33	SA1	34	N/C
35	SA0	36	SA2
37	HDC CS0#	38	HDC CS1#
39	HDD Active#	40	Ground

J5: 50 Pin SCSI Connector

PIN No.	Description	PIN No.	Description
1	Ground	2	SCSI Data 0
3	Ground	4	SCSI Data 1
5	Ground	6	SCSI Data 2
7	Ground	8	SCSI Data 3
9	Ground	10	SCSI Data 4
11	Ground	12	SCSI Data 5
13	Ground	14	SCSI Data 6
15	Ground	16	SCSI Data 7
17	Ground	18	SCSI Low Byte Parity #
19	Ground	20	Ground
21	Ground	22	Ground
23	NC	24	Ground
25	NC	26	Termination Power
27	NC	28	Ground
29	Ground	30	Ground
31	Ground	32	Attention#
33	Ground	34	Ground
35	Ground	36	Busy #
37	Ground	38	Acknowledge#
39	Ground	40	Reset #
41	Ground	42	Message#
43	Ground	44	Select#
45	Ground	46	Command/Data#
47	Ground	48	Request#
49	Ground	50	In/Out #

J6: FDC Connector

PIN No.	Description	PIN No.	Description
1	Ground	2	Density Select

3	Ground	4	N/C
5	Ground	6	FF1#
7	Ground	8	Index#
9	Ground	10	Motor Enable A#
11	Ground	12	Drive Select B#
13	Ground	14	Drive Select A#
15	Ground	16	Motor Enable B#
17	Ground	18	Direction#
19	Ground	20	Step#
21	Ground	22	Write Data#
23	Ground	24	Write Gate#
25	Ground	26	Track 0#
27	Ground	28	Write Protect#
29	N/C	30	Read Data#
31	Ground	32	Head Side Select#
33	N/C	34	Disk Change#

J7: Parallel Port Connector

PIN No.	Description	PIN No.	Description
1	Strobe#	2	Data 0
3	Data 1	4	Data 2
5	Data 3	6	Data 4
7	Data 5	8	Data 6
9	Data 7	10	Acknowledge
11	Busy	12	Paper Empty
13	Printer Select	14	Auto Form Feed#
15	Error#	16	Initialize
17	Printer Select IN#	18	Ground
19	Ground	20	Ground
21	Ground	22	Ground
23	Ground	24	Ground
25	Ground		

J8: PC 104 Connector

PIN No.	Description			
	Row A	Row B	Row C	Row D
0	-	-	0V	0V
1	IOCHCHK*	0V	SBHE*	MEMCS16*
2	SD7	RESETDRV	LA23	IOCS16*
3	SD6	+5	LA22	IRQ10
4	SD5	IRQ9	LA21	IRQ11
5	SD4	-5V	LA20	IRQ12
6	SD3	DRQ2	LA19	IRQ15
7	SD2	-12V	LA18	IRQ14
8	SD1	ENDXFR*	LA17	DACK0*

9	SD0	+12V	MEMR*	DRQ0
10	IOCHRDY	GND	MEMW*	DACK5*
11	AEN	SMEMW*	SD8	DRQ5
12	SA19	SMEMR*	SD9	DACK6*
13	SA18	IOW*	SD10	DRQ6
14	SA17	IOR*	SD11	DACK7*
15	SA16	DACK3*	SD12	DRQ7
16	SA15	DRQ3	SD13	+5V
17	SA14	DACK1*	SD14	MASTER*
18	SA13	DRQ1	SD15	0V
19	SA12	REFRESH*	(KEY)	0V
20	SA11	SYSCLK	-	-
21	SA10	IRQ7	-	-
22	SA9	IRQ6	-	-
23	SA8	IRQ5	-	-
24	SA7	IRQ4	-	-
25	SA6	IRQ3	-	-
26	SA5	DACK2*	-	-
27	SA4	TC	-	-
28	SA3	BALE	-	-
29	SA2	+5V	-	-
30	SA1	OSC	-	-
31	SA0	GND	-	-
32	GND	GND	-	-

J9: Keyboard Connector

PIN No.	Description
1	Keyboard Clock
2	Keyboard Data
3	N/C
4	Ground
5	+5V

J10: Serial Port Connector II for RS422/485

PIN No.	RS422	RS485
1	TXD -	Data -
2	TXD+	Data +
3	RXD+	-
4	RXD-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-

J11: Serial Port Connector (D-Sub 9-Pin)

PIN No.	Description
1	Data Carrier Detect (DCD)
2	Receive Data (RXD)
3	Transmit Data (TXD)
4	Data Terminal Ready (DTR)
5	Ground (GND)
6	Data Set Ready (DSR)
7	Request to Send (RTS)
8	Clear to Send (CTS)
9	Ring Indicator (RI)

J12: 6-Pin Mini-DIN Keyboard Connector (PS/2 Type)

PIN No.	Description
1	Keyboard Data (Mouse data)
2	N/C
3	Ground
4	+5V
5	Keyboard Clock (Mouse clock)
6	N/C

JP8: IDE LED Connector

PIN No.	Description
1	HDD Active #
2	+5V