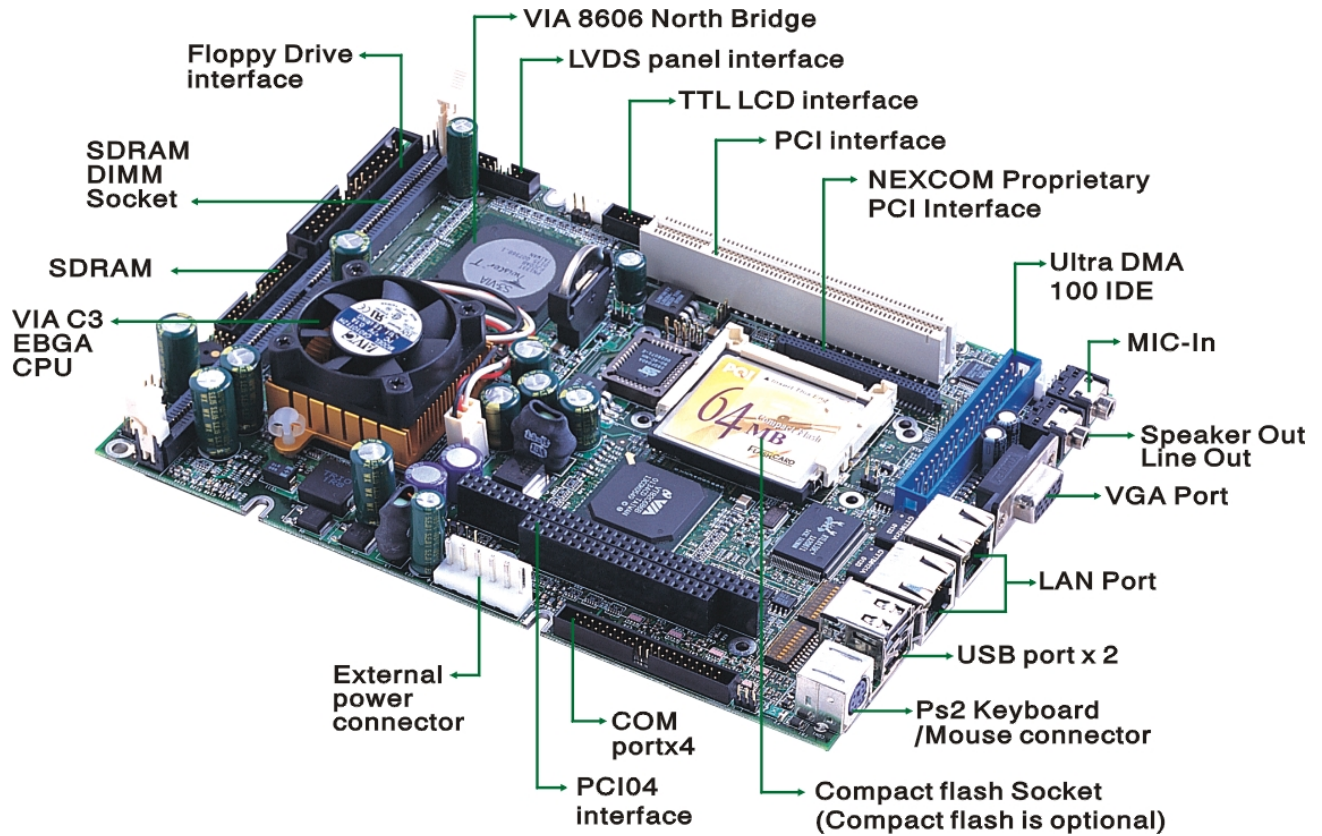
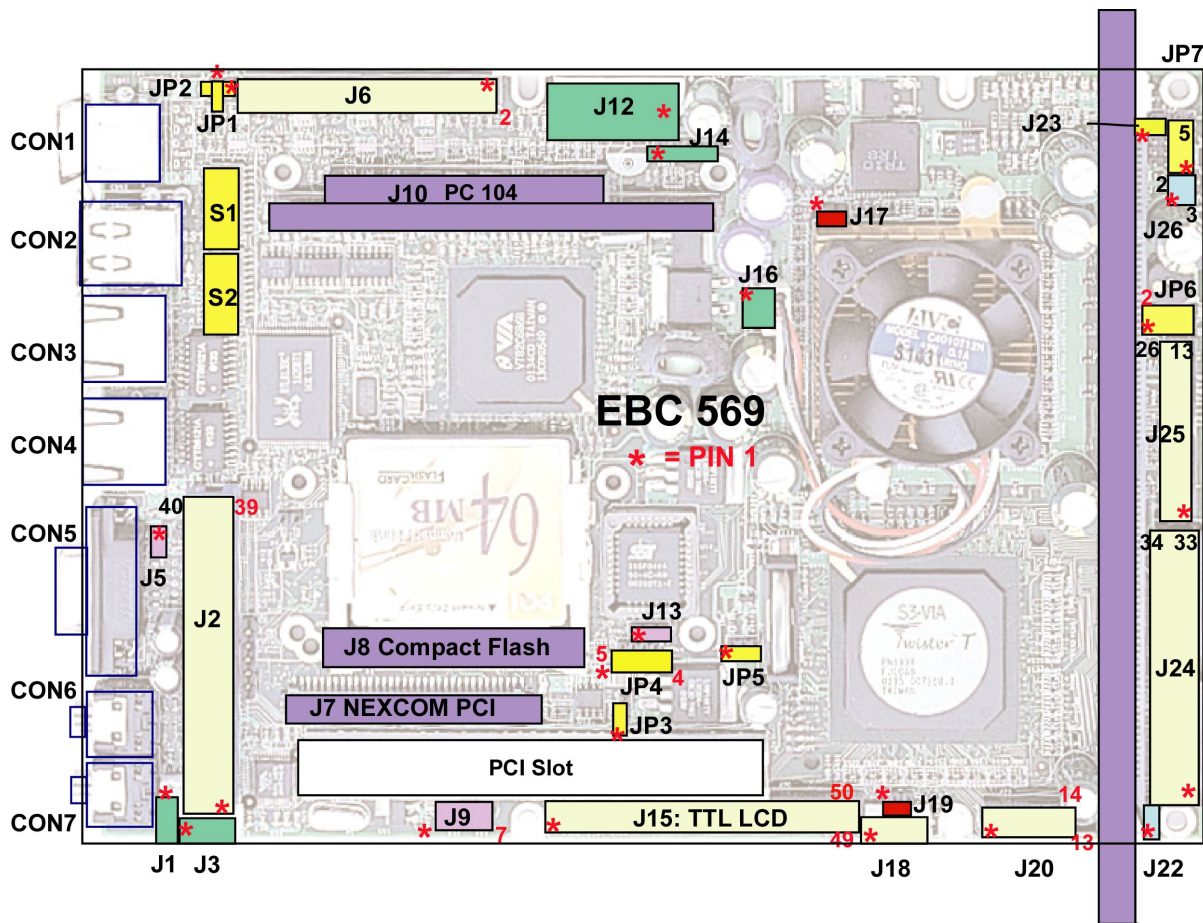


Chapter 2 Switches and Connectors





**Bracket Connector**

- CON1 (PS/2 Keyboard/Mouse Connector): PC99 complied purple PS/2 connector (4NBMF00605).

Pin No.	Description	Pin No.	Description
1	Keyboard Data	2	Mouse Data
3	Chassis Ground	4	+5V
5	Keyboard Clock	6	Mouse Clock
7	Chassis Ground	8	Chassis Ground
9	Chassis Ground		

- CON2 (USB Connector): Use PC99 complied USB dual high connector (4NBUF00202).

Pin No.	Description	Pin No.	Description
1	+5V	2	USB1 Minus
3	USB1 Plus	4	EMI Ground
5	+5V	6	USB2 Minus
7	USB2 Plus	8	EMI Ground

- CON3 (LAN2 RJ45 Connector): Use RJ45 connector with two LED (4NBPD04503).

Pin No.	Description	Pin No.	Description
1	LAN2 TX+	2	LAN2 TX-
3	LAN2 RX+	4	PD to TERMPANE
5	PD to TERMPANE	6	LAN2 RX-
7	PD to TERMPANE	8	PD to TERMPANE
9	LAN Speed# (10/100)	10	LED Power (VCC3)
11	LAN TX/RX	12	LED Power (VCC3)
13	Chassis Ground	14	Chassis Ground

\* PD Mean Pull-Down.

- CON4 (LAN1 RJ45 Connector): Use RJ45 connector with two LED (4NBPD04503).

Pin No.	Description	Pin No.	Description
1	LAN1 TX+	2	LAN1 TX-
3	LAN1 RX+	4	PD to TERMPLANE
5	PD to TERMPLANE	6	LAN1 RX-
7	PD to TERMPLANE	8	PD to TERMPLANE
9	LAN Speed# (10/100)	10	LED Power (VCC3)
11	LAN TX/RX	12	LED Power (VCC3)
13	Chassis Ground	14	Chassis Ground

\* PD Mean Pull-Down.

- CON5 (VGA Connector): standard 5.08mm DB-15 female connector x 1 (4NBDF01503).

Pin No.	Description	Pin No.	Description
1	Red	2	Green
3	Blue	4	N/A
5	Ground	6	Chassis Ground
7	Chassis Ground	8	Chassis Ground
9	+5V	10	Ground
11	Pull-up	12	DDC Data
13	Horizontal Sync.	14	Vertical Sync.
15	DDC Clock	16	Chassis Ground
17	Chassis Ground		

- CON6 (Line Output Connector): Use external Phone Jack connector (4NBPF00501).

Pin No.	Description	Pin No.	Description
1	Ground	2	Left Sound Channel
3	Right Sound Channel	4	NC
5	NC		

- CON7 (Microphone Input Connector): Use external Phone Jack connector (4NBPF00501).

Pin No.	Description	Pin No.	Description
1	Ground	2	Left Sound Channel
3	Right Sound Channel	4	Ground
5	Ground		

- J1 (Line Input Connector): Use 2.0 mm 180-degree 1X4 JST connectors (4NCJM00402).

Pin No.	Description	Pin No.	Description
1	Left Sound Channel	2	Ground
3	Right Sound Channel	4	No Connect

- J2 (Primary IDE Channel Connector): Use PC99 blue 2X20 2.54mm BOXHEADER (4NCBM04006).

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	NC
21	DMA REQ	22	Ground
23	IOW#	24	Ground
25	IOR#	26	Ground
27	IOCHRDY	28	Pull Down
29	DMA ACK#	30	Ground
31	Interrupt 14	32	NC
33	Disk Address 1	34	DMA66 Detect
35	Disk Address 0	36	Disk Address 2
37	HDC CS100	38	HDC CS300
39	HDD Active Led	40	Ground

- J3 (CD Input Connector): Use 2.0 mm 180-degree 1X4 JST connectors (4NCJM00402).

Pin No.	Description	Pin No.	Description
1	Left Sound Channel	2	Ground
3	Right Sound Channel	4	No Connect

- J5 (IDE Active LED Connector): 1X2 2.54mm pin header (4NCIM00201).

Pin No.	Description	Pin No.	Description
1	Pull up to +5V	2	Active signal

- J6 (Serial Port Connector): Use 2.0mm 2X20 box header (4NCBM04008).

<b>Pin No.</b>	<b>Description</b>	<b>Pin No.</b>	<b>Description</b>
1	Data Carrier Detect A	2	Data set Ready A
3	Receive Data A	4	Request to Send A
5	Transmit Data A	6	Clear to Send A
7	Data Terminal Ready A	8	Ring Indicator A
9	Chassis Ground	10	
11	Data Carrier Detect B (RS422/485 TX-)	12	Data set Ready B (RS422 RTS-)
13	Receive Data B (RS422/485 TX+)	14	Request to Send B (RS422 RTS+)
15	Transmit Data B (RS422 RX+)	16	Clear to Send B (RS422 CTS+)
17	Data Terminal Ready B (RS422 RX-)	18	Ring Indicator B (RS422 CTS-)
19	Chassis Ground	20	
21	Data Carrier Detect C	22	Data set Ready C
23	Receive Data C	24	Request to Send C
25	Transmit Data C	26	Clear to Send C
27	Data Terminal Ready C	28	Ring Indicator C
29	Chassis Ground	30	
31	Data Carrier Detect D	32	Data set Ready D
33	Receive Data D	34	Request to Send D
35	Transmit Data D	36	Clear to Send D
37	Data Terminal Ready D	38	Ring Indicator D (Or +12V, +5V)
39	Chassis Ground	40	

- J7 (NEXCOM Proprietary PCI Interface Connector): 2X34 1.27mm female connector (4NCDF06801).

Pin No.	Description	Pin No.	Description
1	+5V	2	AD0
3	AD1	4	AD2
5	AD3	6	AD4
7	AD5	8	AD6
9	AD7	10	Ground
11	+5V	12	AD8
13	AD9	14	AD10
15	AD11	16	AD12
17	AD13	18	AD14
19	AD15	20	Ground
21	+5V	22	AD16
23	AD17	24	AD18
25	AD19	26	AD20
27	AD21	28	AD22
29	AD23	30	Ground
31	+5V	32	AD24
33	AD25	34	AD26
35	AD27	36	AD28
37	AD29	38	AD30
39	AD31	40	Ground
41	+5V	42	C/BE0#
43	C/BE1#	44	C/BE2#
45	C/BE3#	46	PAR
47	FRAME#	48	TRDY#
49	IRDY#	50	Ground
51	+5V	52	STOP#
53	DEVSEL#	54	PERR#
55	SERR#	56	First REQ#
57	First GNT#	58	NC
59	NC	60	NC
61	Second PCI Clock	62	First PCI Clock
63	PCI Reset#	64	LOCK#
65	INTA#	66	INTB#
67	INTC#	68	INTD#

- J8 (Compact Flash Connector): Use high 2.0 mm connector (4SIPLC5001).

Pin No.	Description	Pin No.	Description
1	Ground	2	Data 3
3	Data 4	4	Data 5
5	Data 6	6	Data 7
7	HDC CS100	8	Ground
9	Ground	10	Ground
11	Ground	12	Ground
13	+5V	14	Ground
15	Ground	16	Ground
17	Ground	18	Disk Address 2
19	Disk Address 1	20	Disk Address 0
21	Data 0	22	Data 1
23	Data 2	24	IOCS16# (NC)

25	CF_CD2# (Pull-down)	26	CF_CD1# (Pull-down)
27	Data 11	28	Data 12
29	Data 13	30	Data 14
31	Data 15	32	HDC CS300
33	CF_VS1# (NC)	34	IOR
35	IOW	36	CF_WE# (+5V)
37	Interrupt 15	38	+5V
39	CF_CSEL# (Master or Slave)	40	CF_VS2# (NC)
41	Reset #	42	IOCHRDY
43	DMA REQ / DACK (NC)	44	DMA ACK# /CF_REG# (+5V)
45	HDD Active Led	46	DMA66 Detect / CF_PDIAG#
47	Data 8	48	Data 9
49	Data 10	50	Ground

- J9 (Digital I/O Connector): Use 2X4 2.54mm pin header (4NCIM2X401).

Pin No.	Description	Pin No.	Description
1	Digital input 1	2	Digital output 1
3	Digital input 2	4	Digital output 2
5	Digital input 3	6	Digital output 3
7	Digital input 4	8	Digital output 4



- J10 (PC104 Connector): Use one 2.54mm 2X20 female connector (4NCDF04001) and one 2.54mm 2X32 female connector (4NCDF06401).

2X32 female connector:

Pin No.	Description	Pin No.	Description
1(B1)	Ground	2(A1)	I/O channel check#
3(B2)	RESET	4(A2)	Data7
5(B3)	+5V	6(A3)	Data6
7(B4)	IRQ9	8(A4)	Data5
9(B5)	-5V	10(A5)	Data4
11(B6)	DMA request 2	12(A6)	Data3
13(B7)	-12V	14(A7)	Data2
15(B8)	Zero wait state	16(A8)	Data1
17(B9)	+12V	18(A9)	Data0
19(B10)	Ground	20(A10)	I/O channel ready
21(B11)	S memory write	22(A11)	Address enable
23(B12)	S memory read	24(A12)	Address19
25(B13)	I/O write	26(A13)	Address18
27(B14)	I/O read	28(A14)	Address17
29(B15)	DMA acknowledge 3#	30(A15)	Address16
31(B16)	DMA request 3	32(A16)	Address15
33(B17)	DMA acknowledge 1#	34(A17)	Address14
35(B18)	DMA request 1	36(A18)	Address13
37(B19)	Refresh#	38(A19)	Address12
39(B20)	System clock	40(A20)	Address11
41(B21)	IRQ7	42(A21)	Address10
43(B22)	IRQ6	44(A22)	Address9
45(B23)	IRQ5	46(A23)	Address8
47(B24)	IRQ4	48(A24)	Address7
49(B25)	IRQ3	50(A25)	Address6
51(B26)	DMA acknowledge 2#	52(A26)	Address5
53(B27)	Terminal count	54(A27)	Address4
55(B28)	Bus address latch enable	56(A28)	Address3
57(B29)	+5V	58(A29)	Address2
59(B30)	Oscillator (14.318MHz)	60(A30)	Address1
61(B31)	Ground	62(A31)	Address0
63(B32)	Ground	64(A32)	Ground

2X20 female connector:

Pin No.	Description	Pin No.	Description
1(D0)	Ground	2(C0)	Byte high enable#
3(D1)	Memory chip select 16#	4(C1)	Address23
5(D2)	I/O chip select 16#	6(C2)	Address22
7(D3)	IRQ10	8(C3)	Address21
9(D4)	IRQ11	10(C4)	Address20
11(D5)	IRQ12	12(C5)	Address19
13(D6)	IRQ15	14(C6)	Address18
15(D7)	IRQ14	16(C7)	Address17
17(D8)	DMA acknowledge 0#	18(C8)	Memory read#
19(D9)	DMA request 0	20(C9)	Memory write#
21(D10)	DMA acknowledge 5#	22(C10)	Data8
23(D11)	DMA request 5	24(C11)	Data9
25(D12)	DMA acknowledge 6#	26(C12)	Data10
27(D13)	DMA request 6	28(C13)	Data11
29(D14)	DMA acknowledge 7#	30(C14)	Data12
31(D15)	DMA request 7	32(C15)	Data13
33(D16)	+5V	34(C16)	Data14
35(D17)	Master#	36(C17)	Data15
37(D18)	Ground	38(C18)	Ground
39(D19)	Ground	40(C19)	Ground

- J11 (32 Bits PCI Slot): Standard 32bits PCI slot (4SIPCISL02).

Pin No.	Description	Pin No.	Description	Pin No.	Description	Pin No.	Description
A1	Test Reset#	A32	AD16	B1	-12V (NC)	B32	AD17
A2	+12V	A33	+3.3V	B2	Test Clock	B33	CMD/Byte Enable2#
A3	Test Mode	A34	Frame#	B3	Ground	B34	Ground
A4	Test Input	A35	Ground	B4	Test Output	B35	Initiator Ready#
A5	+5V	A36	Target Ready#	B5	+5V	B36	+3.3V
A6	Interrupt A#	A37	Ground	B6	+5V	B37	Device Select#
A7	Interrupt C#	A38	Stop#	B7	Interrupt B#	B38	Ground
A8	+5V	A39	+3.3V	B8	Interrupt D#	B39	Lock#
A9	Reserved	A40	Snoop Done	B9	Present1#	B40	Parity Error#
A10	+5V	A41	Snoop Backoff#	B10	Secondary REQ#	B41	+3.3V
A11	Reserved	A42	Ground	B11	Present2#	B42	System Error#
A12	Ground	A43	Parity	B12	Ground	B43	+3.3V
A13	Ground	A44	AD15	B13	Ground	B44	CMD/Byte Enable1#
A14	Secondary GNT#	A45	+3.3V	B14	Secondary Clock	B45	AD14
A15	Reset#	A46	AD13	B15	Ground	B46	Ground
A16	+5V	A47	AD11	B16	Clock	B47	AD12
A17	Grant (GNT#)	A48	Ground	B17	Ground	B48	AD10
A18	Ground	A49	AD9	B18	Request#	B49	Ground
A19	PME#	A50	Keyway	B19	+5V	B50	Keyway
A20	AD30	A51	Keyway	B20	AD31	B51	Keyway
A21	+3.3V	A52	CMD/Byte Enable0#	B21	AD29	B52	AD8
A22	AD28	A53	+3.3V	B22	Ground	B53	AD7
A23	AD26	A54	AD6	B23	AD27	B54	+3.3V
A24	Ground	A55	AD4	B24	AD25	B55	AD5
A25	AD24	A56	Ground	B25	+3.3V	B56	AD3
A26	ID Select	A57	AD2	B26	CMD/Byte Enable3#	B57	Ground
A27	+3.3V	A58	AD0	B27	AD23	B58	AD1
A28	AD22	A59	+5V	B28	Ground	B59	+5V
A29	AD20	A60	Request 64Bits#	B29	AD21	B60	Acknowledge 64Bits#
A30	Ground	A61	+5V	B30	AD19	B61	+5V
A31	AD18	A62	+5V	B31	+3.3V	B62	+5V

- J12 (DC Adapter Board Power Input Connector): Use 1X6 3.96mm power connector (4NCPM00605).

Pin No.	Description	Pin No.	Description
1	+5V	2	+5V
3	Ground	4	Ground
5	Ground	6	+12V

- J13 (SMBus External Connector): Use 1X3 2.54mm pin header (4NCIM00301).

Pin No.	Description	Pin No.	Description
1	Data	2	Clock
3	Ground		

- J14 (IrDA Connector): Use 1X5 2.54mm pin header (4NCIM00501).

Pin No.	Description	Pin No.	Description
1	+5V	2	No Connect
3	Data Receive	4	Ground
5	Data Transmit		

- J16 (CPU FAN Connector): Use 1X3 2.54mm standard FAN connector (4NCJM00304).

Pin No.	Description	Pin No.	Description
1	Ground	2	+12V
3	FAN speed sense		

- Chapter 1 J18 (CCFL Connector): Use 1X5 2.0mm JST connector (4NCJM00506).

Pin No.	Description	Pin No.	Description
1	+12V	2	Ground
3	Back light enable	4	Panel back light VR (1K $\Omega$ )
5	+5V		

Chapter 2 J15 (TTL Panel Connector): Use 2X25 2.0mm BOXHEADER  
(4NCBM05002 or 4NCBM05003).

Pin No.	Description	Pin No.	Description
1	Black Light Control	2	VEE (+12V With Control)
3	Horizontal Sync.	4	Data Enable
5	First Panel Clock	6	Vertical Sync.
7	Data25	8	Panel Power (5V or 3.3V)
9	Data24	10	Data31
11	Data28	12	Data26
13	Data32	14	Data30
15	Data13	16	Data34
17	Data12	18	Data19
19	Data16	20	Panel Power (5V or 3.3V)
21	Data20	22	Data14
23	Ground	24	Data18
25	Data1	26	Data22
27	Data0	28	Data7
29	Data4	30	VEE Enable
31	Data8	32	Data2
33	Ground	34	Data6
35	Data3	36	Data10
37	Data9	38	Data5
39	No Connect	40	Ground
41	Data15	42	Data11
43	Data21	44	Data17
45	Data27	46	Data23
47	Data33	48	Data29
49	Ground	50	Data35

- J20 (LVDS Panel Connector): Use 2X7 2.0mm BOXHEADER (4NCBM01403).

<b>Pin No.</b>	<b>Description</b>	<b>Pin No.</b>	<b>Description</b>
1	Panel Power (5V or 3.3V)	2	Data 1-
3	Data 0-	4	Data 1+
5	Data 0+	6	Ground
7	Ground	8	Data 2-
9	Clock +	10	Data 2+
11	Clock -	12	Panel Power (5V or 3.3V)
13	Ground	14	Ground

- J21 (DIMM Connector): Use 180degree socket (4SRDI16802 or 4SRDI16803).

Pin No.	Description	Pin No.	Description	Pin No.	Description	Pin No.	Description
1	Ground	2	DATA0	85	Ground	86	DATA32
3	DATA1	4	DATA2	87	DATA33	88	DATA34
5	DATA3	6	VDD	89	DATA35	90	VDD
7	DATA4	8	DATA5	91	DATA36	92	DATA37
9	DATA6	10	DATA7	93	DATA38	94	DATA39
11	DATA8	12	Ground	95	DATA40	96	Ground
13	DATA9	14	DATA10	97	DATA41	98	DATA42
15	DATA11	16	DATA12	99	DATA43	100	DATA44
17	DATA13	18	VDD	101	DATA45	102	VDD
19	DATA14	20	DATA15	103	DATA46	104	DATA47
21	ECC0/NC	22	ECC1/NC	105	ECC4/NC	106	ECC5/NC
23	Ground	24	ECC8/NC	107	Ground	108	ECC12/NC
25	ECC9/NC	26	VDD	109	ECC13/NC	110	VDD
27	Write Enable#	28	DQ Mask0	111	Col. Add. Strobe#	112	DQ Mask4
29	DQ Mask1	30	Chip Sel.0#	113	DQ Mask5	114	Chip Sel.1#
31	NU/OE0#	32	Ground	115	Row Add. Strobe#	116	Ground
33	Address0	34	Address2	117	Address1	118	Address3
35	Address4	36	Address6	119	Address5	120	Address7
37	Address8	38	Address10/AP	121	Address9	122	Bank Sel.A0
39	Bank Sel.A1	40	VDD	123	Address11	124	VDD
41	VDD	42	Clock 0	125	Clock 1	126	Address12
43	Ground	44	NU/OE2#	127	Ground	128	CLK Enable0
45	Chip Sel.2#	46	DQ Mask2	129	Chip Sel.3#	130	DQ Mask6
47	DQ Mask3	48	NU/Write Enable2#	131	DQ Mask7	132	Address13
49	VDD	50	ECC10/NC	133	VDD	134	ECC14/NC
51	ECC11/NC	52	ECC2/NC	135	ECC15/NC	136	ECC6/NC
53	ECC3/NC	54	Ground	137	ECC7/NC	138	Ground
55	DATA16	56	DATA17	139	DATA48	140	DATA49
57	DATA18	58	DATA19	141	DATA50	142	DATA51
59	VDD	60	DATA20	143	VDD	144	DATA52
61	NC	62	VREF/NC	145	NC	146	VREF/NC
63	CLK Enable1	64	Ground	147	NC/REG En.	148	Ground
65	DATA21	66	DATA22	149	DATA53	150	DATA54
67	DATA23	68	Ground	151	DATA55	152	Ground
69	DATA24	70	DATA25	153	DATA56	154	DATA57
71	DATA26	72	DATA27	155	DATA58	156	DATA59
73	VDD	74	DATA28	157	VDD	158	DATA60
75	DATA29	76	DATA30	159	DATA61	160	DATA62
77	DATA31	78	Ground	161	DATA63	162	Ground
79	Clock 2	80	NC	163	Clock 3	164	NC
81	NC	82	I <sup>2</sup> C Data	165	I <sup>2</sup> C Add. 0	166	I <sup>2</sup> C Add. 1
83	I <sup>2</sup> C Clock	84	VDD	167	I <sup>2</sup> C Add. 2	168	VDD

- J22 (Reset Connector): Use 1X2 2.54mm pin header (4NCIM00201).

Pin No.	Description	Pin No.	Description
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1	Reset	2	Ground
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- J23 (Power LED Connector): Use 1X2 2.54mm pin header (4NCIM00201).

Pin No.	Description	Pin No.	Description
1	Pull-Up to +5V	2	Ground

- J24 (Floppy Connector): Use 2X17 2.54mm box header (4NCBM02601).

Pin No.	Description	Pin No.	Description
1	Ground	2	Drive Density Select 0
3	Ground	4	NC
5	Ground	6	Drive Density Select 1
7	Ground	8	Index Pulse Input
9	Ground	10	Motor On 0
11	Ground	12	Drive Select 1
13	Ground	14	Drive Select 0
15	Ground	16	Motor On 1
17	Ground	18	Step Direction
19	Ground	20	Step Pulse
21	Ground	22	Write Disk Data
23	Ground	24	Write Gate
25	Ground	26	Track 0
27	Ground	28	Write Protected
29	NC	30	Read Disk Data
31	Ground	32	Head Select
33	NC (Automatic Media Sense)	34	Disk Change

- J25 (Parallel Port Connector): Use 2.0mm 2X13 box header (4NCBM02602).

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	Chassis Ground
19	Chassis Ground	20	Chassis Ground
21	Chassis Ground	22	Chassis Ground
23	Chassis Ground	24	Chassis Ground
25	Chassis Ground	26	N/A

- J26 (ATX Power Button Connector): Use 2x2 2.54mm pin header (4NCIM2X201).

Pin No.	Description	Pin No.	Description
1	Power On (From ATX power)	2	Ground
3	Power On (To power button with lock)	4	Ground



### Jumper Setting

Marked "\*" was the default setting.

- JP1 & JP2 (Fourth Serial Port RI# Pin Function Selection):

Pin No.	Status	Function Description
JP1 (1-2)	Short*	RI#
JP2 (1-2)	Short	Select +5V
JP2 (2-3)	Short	Select +12V

- JP3 (Panel Power Select):

Pin No.	Status	Function Description
1-2	Short	+5V Input
2-3	Short*	+3.3 Input

- JP4 (Host And PCI Frequency Select):

Frequency	1-5	2-6	3-7	4-8
133 / 33.3 MHz*	Open	Open	Open	Open
100 / 33.43 MHz	Open	Open	Open	Short
66.8 / 33.4 MHz	Open	Open	Short	Short

- JP5 (CMOS Status Select):

Pin No.	Status	Function Description
1-2	Short*	Normal Operation
2-3	Short	Clear CMOS Data

Chapter 3      JP6 (Panel Type Select):

## Chapter 4 JP7 (CPU Ratio Select):

<b>Ratio</b>	<b>5-10 (Ratio0)</b>	<b>4-9 (Ratio1)</b>	<b>3-8 (Ratio2)</b>	<b>2-7 (Ratio3)</b>	<b>1- 6 (Ratio4)</b>
3.0X	<i>Short</i>	<i>Short</i>	Short	Short	Open
3.5X	Short	Short	Open	Short	Open
4.0X	Short	Short	<i>Short</i>	Open	Short
4.5X	Short	Short	Open	Open	Short
5.0X	Short	Open	<i>Short</i>	<i>Short</i>	Short
5.5X	<i>Short</i>	<i>Short</i>	Open	<i>Short</i>	Short
6.0X*	<i>Short</i>	<i>Open</i>	<i>Short</i>	<i>Open</i>	<i>Open</i>
6.5X	Short	Open	Open	Open	Open
7.0X	Short	Open	<i>Short</i>	<i>Short</i>	Open
7.5X	Short	Open	Open	Short	Open
8.0X	Short	Open	Short	Open	Short
8.5X	Short	Open	Open	Open	Short
9.0X	Short	<i>Short</i>	<i>Short</i>	<i>Short</i>	Short
9.5X	Short	Short	Open	Open	Open
10.0X	Short	Short	<i>Short</i>	Open	Open
10.5X	Open	Short	Open	Open	Open
11.0X	Open	Short	<i>Short</i>	<i>Short</i>	Open
11.5X	Open	Short	Open	Short	Open
12.0X	Open	Short	<i>Short</i>	Open	Short
12.5X	Open	Short	Open	Open	Short
13.0X	Open	Open	<i>Short</i>	<i>Short</i>	Short
13.5X	Open	Short	Open	Short	Short
14.0X	Open	Open	Short	Open	Open
14.5X	Open	Open	Open	Open	Open
15.0X	Open	Open	<i>Short</i>	<i>Short</i>	Open
15.5X	Open	Open	Open	Open	Short
16.0X	Open	Open	Short	Open	Short

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Chapter 5      S1 & S2 (Serial Port 2 RS232/422/485 Select):

Mode	S1-1	S1-2	S1-3	S1-4	S1-5	S1-6	S1-7	S1-8	S1-9	S1-10
RS232*	Off	On	Off	Off	Off	On	Off	On	Off	On
RS422	On	Off	On	Off	On	Off	On	Off	On	Off
RS485	On	Off	Off	On	On	Off	On	Off	On	Off

Mode	S2-1	S2-2	S2-3	S2-4	S2-5	S2-6	S2-7	S2-8	S2-9	S2-10
RS232*	Off	On	Off	On	Off	On	Off	On	Off	On
RS422	On	Off	On	Off	On	Off	On	Off	On	Off
RS485	On	Off	On	Off	On	Off	On	Off	On	Off