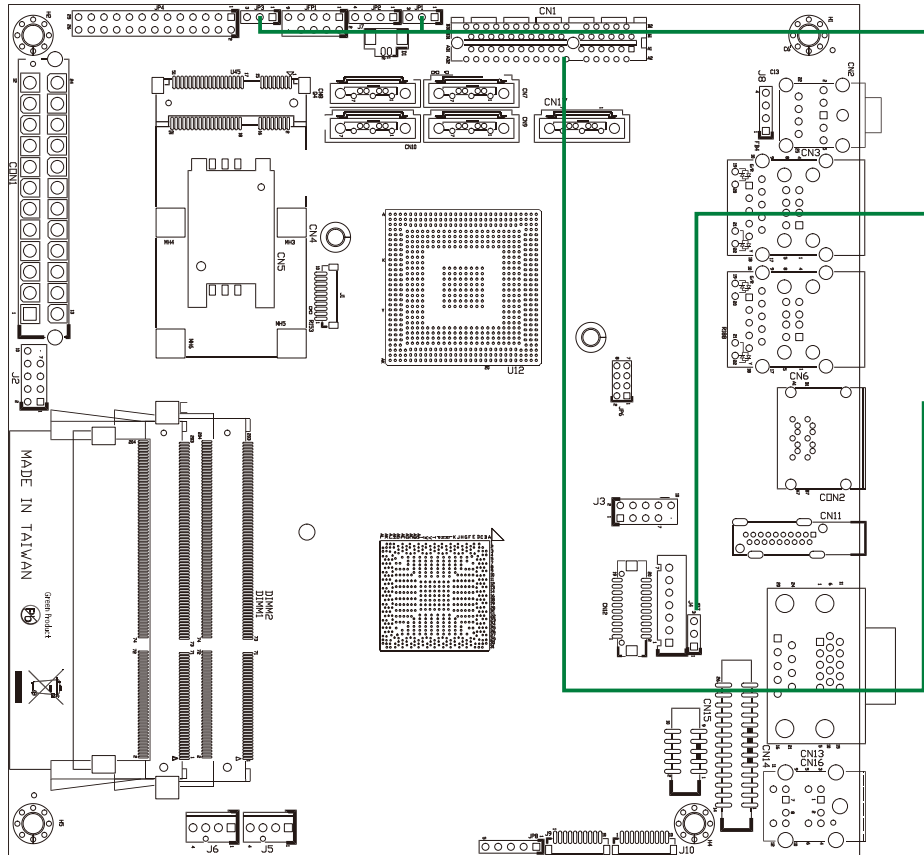


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### 3.1. CMOS Clear Select: JP1

Pin NO.	Status	Function Description
1-2 (*)	Short	Normal
2-3	Short*	Clear BIOS

### 3.2. ATX/AT Mode Select: JP3

Pin NO.	Status	Function Description
1-2 (*)	Short	ATX Mode
2-3	Short*	AT Mode

### 3.3. LVDS Backlight Power Select: JP7

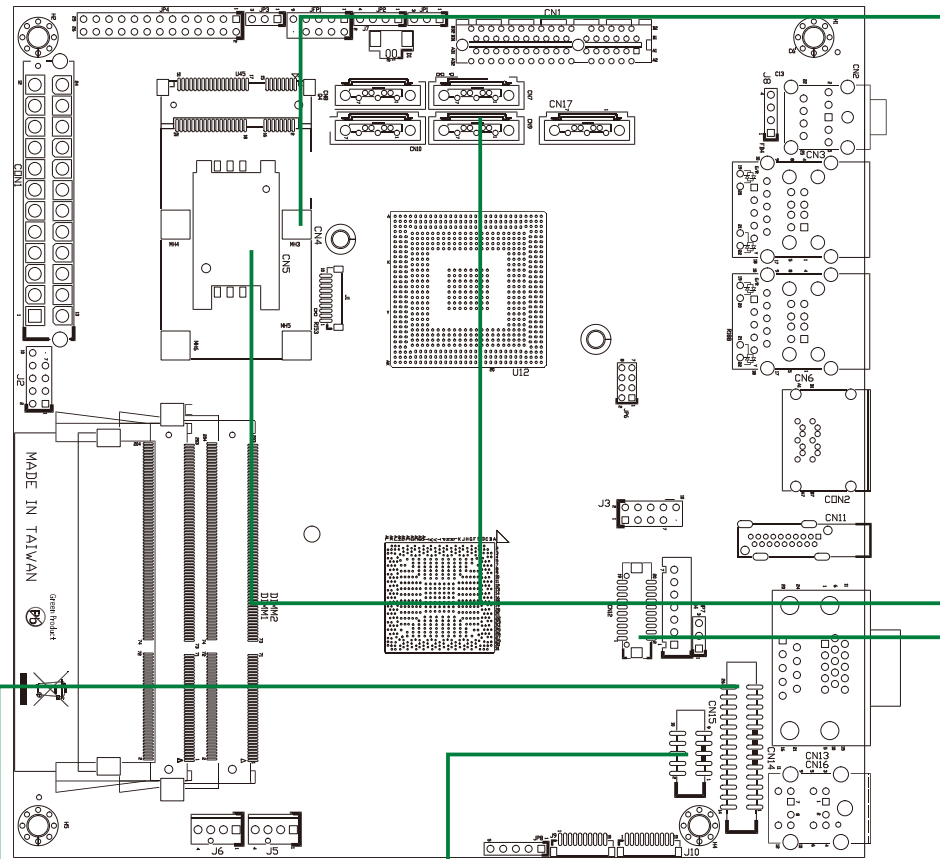
Pin NO.	Status	Function Description
1-2 (*)	Short	3.3V
2-3	Short*	5V

### 4.1. PCIe x 4 Slot: CN1

Pin NO.	Definition	Pin NO.	Definition
A1	PRSNT1#	B1	+12V
A2	+12V	B2	+12V
A3	+12V	B3	+12V
A4	GND	B4	GND
A5	NC	B5	SCL
A6	NC	B6	SDA
A7	NC	B7	GND
A8	NC	B8	+3.3V
A9	+3.3V	B9	NC
A10	+3.3V	B10	3VSB
A11	PERST#	B11	WAKE#
A12	GND	B12	NC
A13	PE_CLK_P	B13	GND
A14	PE_CLK_N	B14	PE_TX1_P
A15	GND	B15	PE_TX1_N
A16	PE_RX1_P	B16	GND
A17	PE_RX1_N	B17	PRSNT2#
A18	GND	B18	GND
A19	NC	B19	PE_TX2_P
A20	GND	B20	PE_TX2_N
A21	PE_RX2_P	B21	GND
A22	PE_RX2_N	B22	GND
A23	GND	B23	PE_TX3_P
A24	GND	B24	PE_TX3_N
A25	PE_RX3_P	B25	GND
A26	PE_RX3_N	B26	GND
A27	GND	B27	PE_TX4_P
A28	GND	B28	PE_TX4_N
A29	PE_RX4_P	B29	GND
A30	PE_RX4_N	B30	NC
A31	GND	B31	PRSNT3#
A32	NC	B32	GND

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## 4.2. Mini-PCIe Connector: CN4 (support 3.5G)

Pin NO.	Definition	Pin NO.	Definition
1	WAKE#	2	3VSB
3	NC	4	GND
5	NC	6	1.5VSB
7	Pull high 10K to 3VSB	8	NC
9	GND	10	NC
11	REFCLK-	12	NC
13	REFCLK+	14	NC
15	GND	16	NC
17	NC	18	GND
19	NC	20	Pull high 100K to 3VSB
21	GND	22	PERST#
23	PE_RX-	24	3VSB
25	PE_RX+	26	GND
27	GND	28	1.5VSB
29	GND	30	NC
31	REFCLK+	32	NC
33	PE_TX+	34	GND
35	GND	36	USB-
37	GND	38	USB+
39	3VSB	40	GND
41	3VSB	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	1.5VSB
49	NC	50	GND
51	NC	52	3VSB

## 4.3. SIM Card Connector: CN5

Pin NO.	Definition	Pin NO.	Definition
C1	Power voltage	C5	GND
C2	RESET	C6	Program voltage
C3	CLK	C7	DATA

## 4.4. SATA 2.0 Connector: CN17(SATA1), CN7 (SATA2), CN9 (SATA3), CN10 (SATA4), CN8 (SATA5).

Pin No.	Signal Name
1	GND
2	SATA_TX_P
3	SATA_TX_N
4	GND
5	SATA_RX_P
6	SATA_RX_N
7	GND

## 4.6. PIO Connector: CN14

Pin NO.	Definition	Pin NO.	Definition
1	STB#	2	D0
3	D1	4	D2
5	D3	6	D4
7	D5	8	D6
9	D7	10	ACK#
11	BUSY	12	PE
13	SLCT	14	AFD#
15	ERR#	16	INIT#
17	SLIN#	18	GND
19	GND	20	GND
21	GND	22	GND
23	GND	24	GND
25	GND	26	GND

## 4.7. COM2 RS232 Connector: CN15 (COM2)

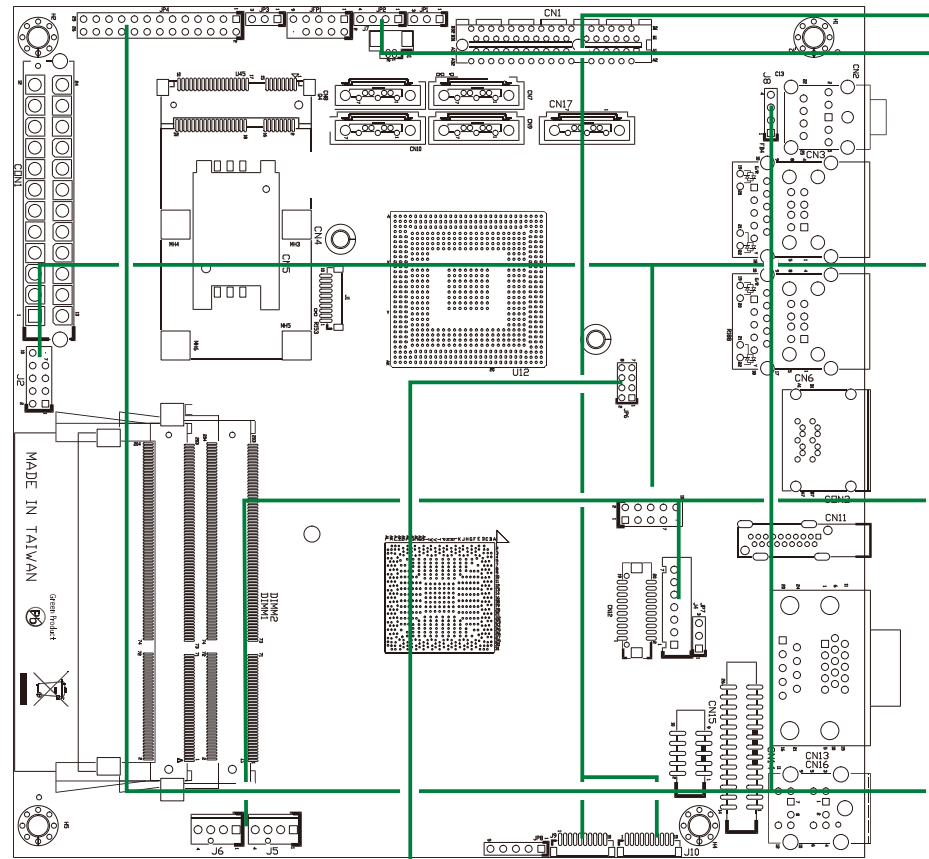
Pin NO.	Definition	Pin NO.	Definition
1	DCD2	2	RXD2
3	TXD2	4	DTR2
5	GND	6	DSR2
7	RTS2	8	CTS2
9	RI2	10	GND

## 4.5. LVDS Connector: CN12

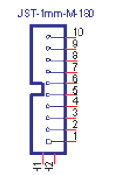
Pin NO.	Definition	Pin NO.	Definition
1	NC	2	NC
3	VCC_LCD	4	TX0+
5	TX3+	6	TX0-
7	TX3-	8	VCC_LCD
9	GND	10	TX1+
11	TXCLK+	12	TX1-
13	TXCLK-	14	GND+
15	GND	16	Backlight power(+12V)
17	TX2+	18	Backlight power(+12V)
19	TX2-	20	GND

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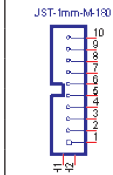


## 4.14. COM3 RS232 connector: J10



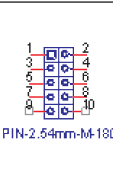
Pin NO.	Definition	Pin NO.	Definition
1	DCD3	2	RXD3
3	TXD3	4	DTR3
5	GND	6	DSR3
7	RTS3	8	CTS3
9	RI3	10	GND

## 4.14. COM4 RS232 connector: J9



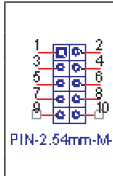
Pin NO.	Definition	Pin NO.	Definition
1	DCD4	2	RXD4
3	TXD4	4	DTR4
5	GND	6	DSR4
7	RTS4	8	CTS4
9	RI4	10	GND

## 4.9. USB Connector: J2 (USB6, USB7)



Pin NO.	Definition	Pin No.	Definition
1	5VDUAL	2	5VDUAL
3	DATA6_N	4	DATA7_N
5	DATA6_P	6	DATA7_P
7	GND	8	GND
9	NC	10	NC

## 4.9. USB Connector: J3 (USB8, USB9)



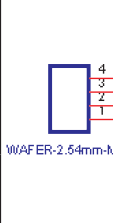
Pin NO.	Definition	Pin No.	Definition
1	5VDUAL	2	5VDUAL
3	DATA8_N	4	DATA9_N
5	DATA8_P	6	DATA9_P
7	GND	8	GND
9	NC	10	NC

## 4.10. LVDS Panel Backlight Connector: J4




Pin NO.	Definition	Pin NO.	Definition
1	+5V	2	Backlight power(+12V)
3	Backlight power(+12V)	4	Backlight brightness control
5	GND	6	GND
7	Backlight enable		

## 4.11. FAN Connector (4PIN): J5, J6



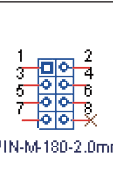
Pin NO.	Definition	Pin NO.	Definition
1	GND	2	+12V
3	FAN_TAC	4	FAN_CTL

## 4.12. RTC battery IN connector (2PIN): J7



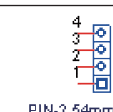
Pin NO.	Definition
1	GND
2	RTC battery IN

## 4.17. SGPIO (SFF-8485) connector: JP6



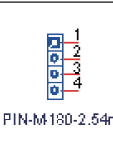
Pin NO.	Definition	Pin No.	Definition
1	SCLOCK	2	SDATAOUT0
3	SLOAD	4	SDATAOUT1
5	+3.3V	6	GND
7	GND	8	NC

## 4.13. LINE-IN connector (4PIN): J8



Pin NO.	Definition
1	LINEIN_R
2	LINEIN_JD
3	GND
4	LINEIN_L

## 4.15. SMBus Connector: JP2



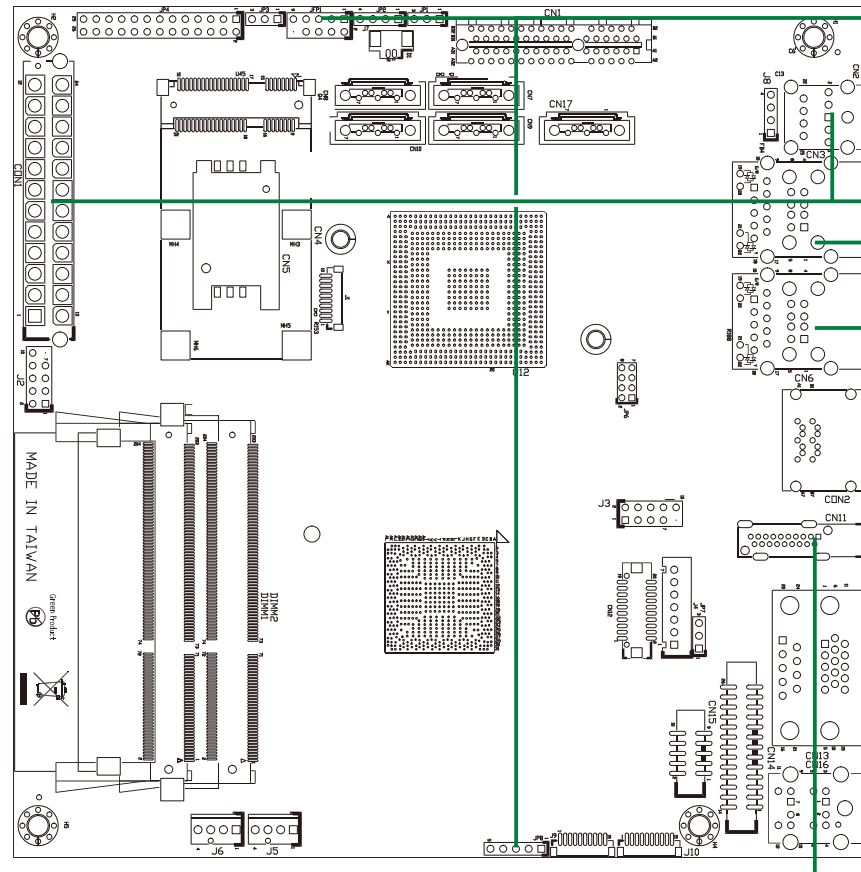
Pin NO.	Definition
1	3VSB
2	SMB_DATA
3	SMB_CLK
4	GND

## 4.16. SATA&LAN LED Connector: JP4

Pin NO.	Definition	Pin No.	Definition
1	+3.3V	2	GND
3	SATA0_P_LED	4	SATA0_S_LED
5	SATA1_P_LED	6	SATA1_S_LED
7	SATA2_P_LED	8	SATA2_S_LED
9	SATA3_P_LED	10	SATA3_S_LED
11	SATA4_P_LED	12	SATA4_S_LED
13	SATA5_P_LED	14	SATA5_S_LED
15	SYS_P_LED	16	SYS_S_LED
17	NC	18	GND
19	+3.3V	20	SATALED_N
21	3VSB	22	LAN1_ACT_N
23	3VSB	24	LAN2_ACT_N
25	PWRBTN+	26	PWRBTN+

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## 4.18. IR connector: JP8

Pin NO.	Definition	Pin NO.	Definition
1	+5V	2	NC
3	IRRX	4	GND
5	IRTX		

## 4.20. ATX power connector (2x12): CON1

Pin NO.	Definition	Pin No.	Definition
1	+3.3V	2	+3.3V
3	GND	4	+5V
5	GND	6	+5V
7	GND	8	POWEROK
9	+5VSB	10	+12V
11	+12V	12	+3.3V
13	+3.3V	14	NC
15	GND	16	PS-ON
17	GND	18	GND
19	GND	20	NC
21	+5V	22	+5V
23	+5V	24	GND

## 5.2. Dual USB + LAN Connector: CN3

Pin No.	Definition	Pin No.	Definition
1	5VDUAL	2	USB2_N
3	USB2_P	4	GND
5	5VDUAL	6	USB3_N
7	USB3_P	8	GND
9	TCT	10	LAN2_MDI0P
11	LAN2_MDI0N	12	LAN2_MDI1P
13	LAN2_MDI1N	14	LAN2_MDI2P
15	LAN2_MDI2N	16	LAN2_MDI3P
17	LAN2_MDI3N	18	GND
19	LAN2_100M#	20	LAN2_1G#
21	LAN2_ACTLED#	22	LAN2_ACTLED# POWER

## 4.19. FP control connector: JFP1

Pin NO.	Definition	Pin No.	Definition
1	SATA_LED_P	2	PWR_LED_P
3	SATA_LED_N	4	GND
5	GND	6	PWRBT_N
7	RST_BTN_N	8	GND
9	NC		

## 4.21. Switch for SATA port 1: SW1

Choose.	Definition
ON	For external output
OFF	For internal output

## 5.1. Audio Connector: CN2

PIN No.	Signal Name
1	GND
2	MIC1_L
3	MIC1_JD
4	GND
5	MIC1_R
22	FRONT_L
23	FRONT_JD
24	GND
25	FRONT_R

## 5.3. Dual USB + LAN Connector: CN6

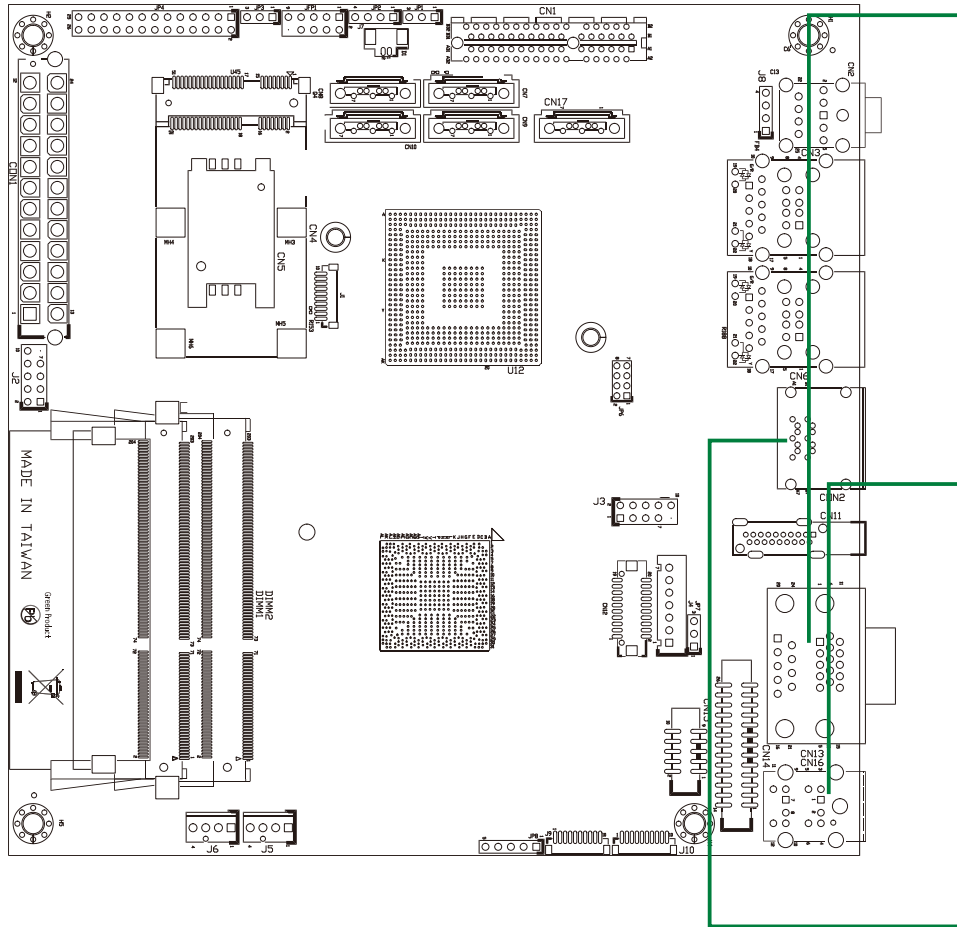
Pin No.	Definition	Pin No.	Definition
1	5VDUAL	2	USB0_N
3	USB0_P	4	GND
5	5VDUAL	6	USB1_N
7	USB1_P	8	GND
9	TCT	10	LAN1_MDI0P
11	LAN1_MDI0N	12	LAN1_MDI1P
13	LAN1_MDI1N	14	LAN1_MDI2P
15	LAN1_MDI2N	16	LAN1_MDI3P
17	LAN1_MDI3N	18	GND
19	LAN1_100M#	20	LAN1_1G#
21	LAN1_ACTLED#	22	LAN1_ACTLED# POWER

## 5.4. HDMI Connector: CN11

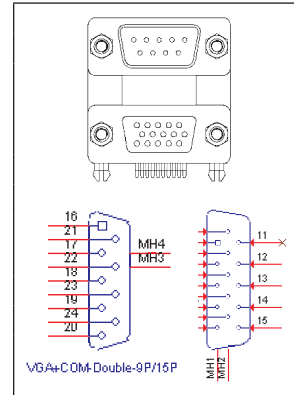
Pin No.	Definition	Pin No.	Definition
1	Data2+	2	GND
3	Data2-	4	Data1+
5	GND	6	Data1-
7	Data0+	8	GND
9	Data0-	10	Clock+
11	GND	12	Clock-
13	NC	14	NC
15	HDMI SCL	16	HDMI SDA
17	GND	18	+5V
19	HPD		

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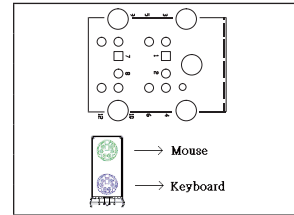


## 5.5. VGA+COM1 Connector: CN13



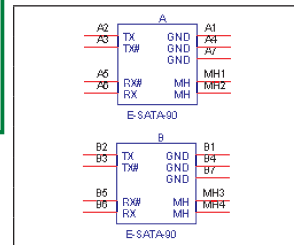
Pin NO.	Definition	Pin NO.	Definition
1	RED	2	GREEN
3	BLUE	4	NC
5	GND	6	GND
7	GND	8	GND
9	+5V	10	GND
11	NC	12	DDC DATA
13	HSYNC	14	VSYSNC
15	DDC CLOCK	16	DCD
17	RXD	18	TXD
19	DTR	20	GND
21	DSR	22	RTS
23	CTS	24	RI

## 5.6. PS/2 KB/MS Connector: CN16



Pin NO.	Definition	Pin NO.	Definition
1	KB DATA	7	MS DATA
2	NC	8	NC
3	GND	9	GND
4	5VDUAL	10	5VDUAL
5	KB CLOCK	11	MS CLOCK
6	NC	12	NC

## 5.7. eSATA Connector: CON2, L(SATA0), U(SATA1)



Pin NO.	Definition	Pin NO.	Definition
A1	GND	B1	GND
A2	SATA1_TXP	B2	SATA0_TXP
A3	SATA1_TXN	B3	SATA0_TXN
A4	GND	B4	GND
A5	SATA1_RXN	B5	SATA0_RXN
A6	SATA1_RXP	B6	SATA0_RXP
A7	GND	B7	GND