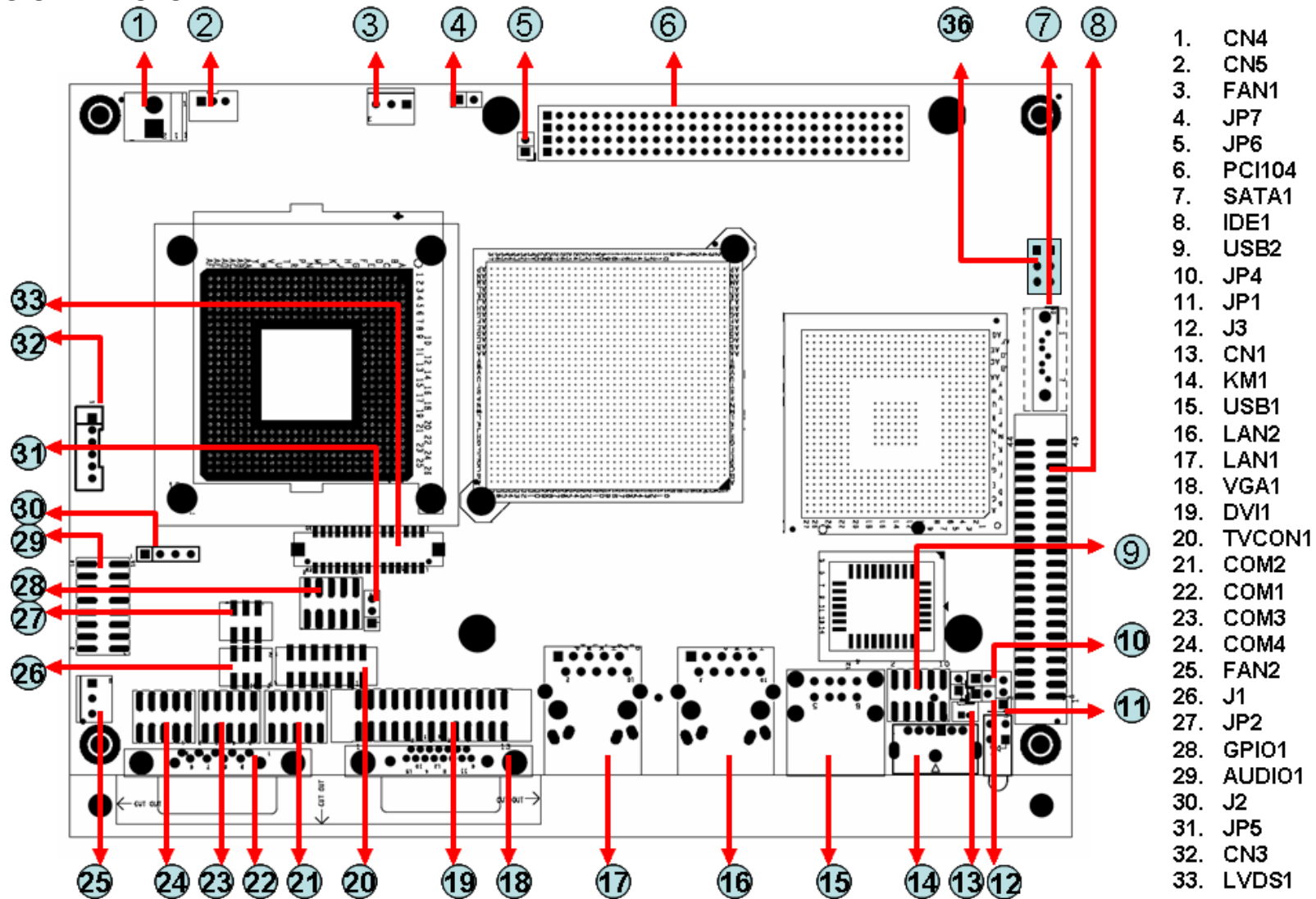
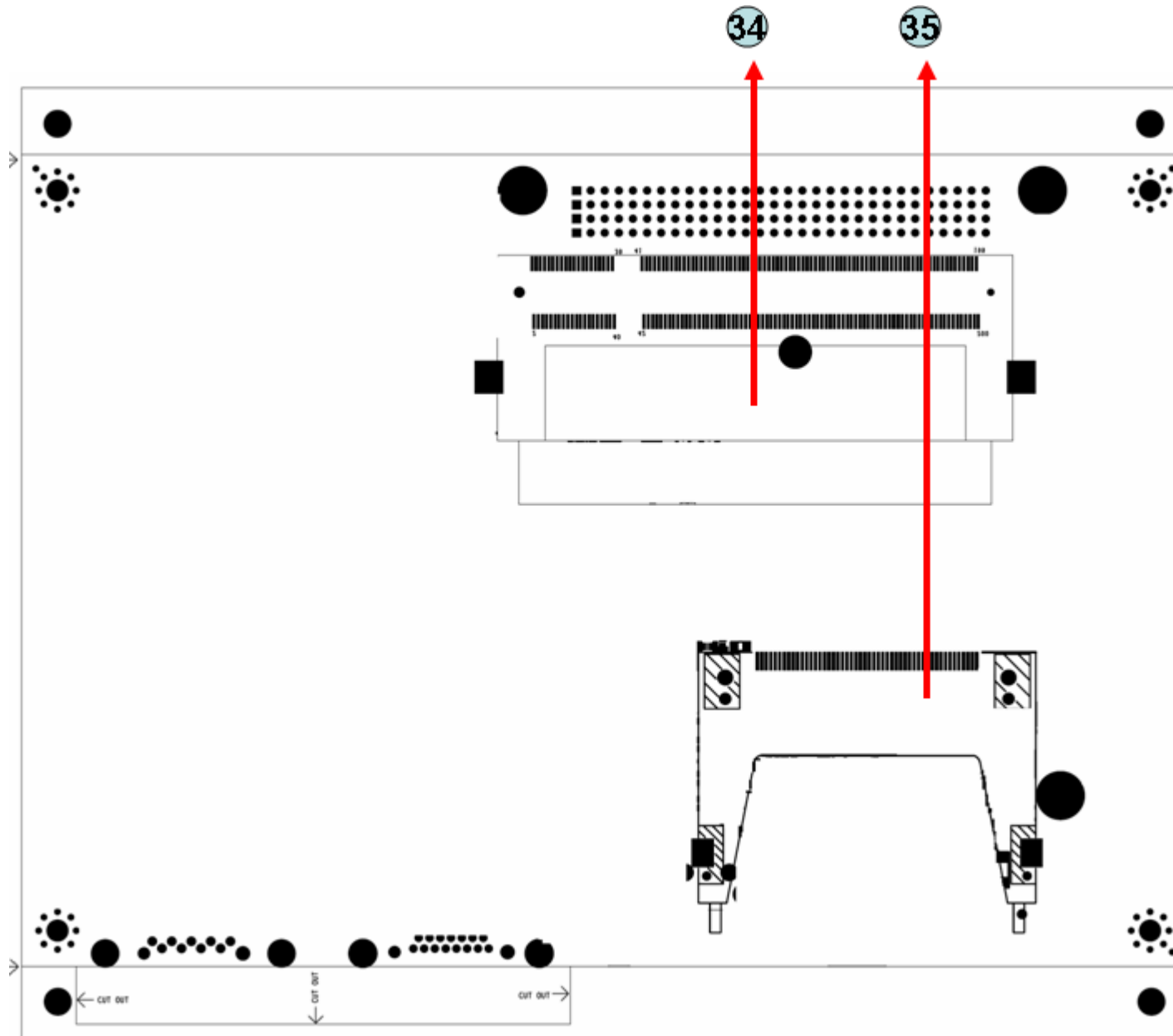


# AR-B5230/SD MANUAL

Version 1.01

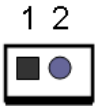
## 1. SETTING UP THE SYSTEM





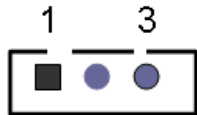
- 34. DDR2
- 35. CF1
- 36 JP8,JP9

### 3.1 POWER INPUT (CN4)



SET	SIGNAL
1	+12V
2	GND

### 3.2 ATX FUNCTION CONNECTOR (CN5)



SET	SIGNAL
1	GND
2	PS_ON
3	+5V_SUS

### 3.3 CPU FAN (FAN1)

### 3.4 FSB JUMPER (JP7)

SET	SIGNAL
SHORT	DOZHAN
OPEN	BANINES

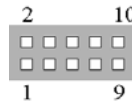
### 3.5 (JP6)

### 3.6 PCI104 (PCI104)

### 3.7 SATA CONNECTOR (SATA1)

### 3.8 PATA CONNECTOR (IDE1)

### 3.9 INTERNAL USB CONNECTOR (USB2)



PIN	SIGNAL	PIN	SIGNAL
1	+5V	2	+5V
3	USB0-	4	USB1-
5	USB0+	6	USB1+
7	GND	8	GND
9	GND	10	GND

### 3.10 CFMASTER SELECT (JP4)



SET	SIGNAL
SHORT	MASTER
OPEN	SLAVE

### 3.11 CMOS CLEAR PIN HEADER (JP1)



1-2 : On-board battery  
( Factory preset )  
2-3 : Clear CMOS

### 3.12 KEYBOARD LOCK (J3)



OPEN



CLOSE  
Factory Preset

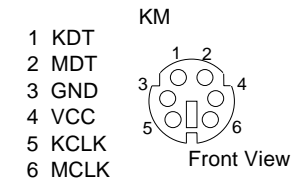
CLOSE : UNLOCK  
(Factory preset)

OPEN : LOCK

### 3.13 BATTERY CONNECTOR (CN1)

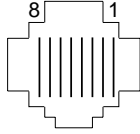


### 3.14 KEYBOARD/MOUSE CONNECTOR (KM1)

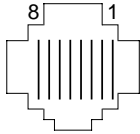


### 3.15 EXTERNAL USB (USB1)

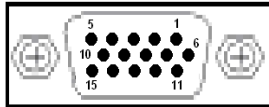
### 3.16 RJ45 CONNECTOR (LAN2)



### 3.17 RJ45 CONNECTOR (LAN1)

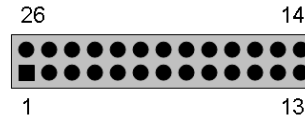


### 3.18 DB-15 VGA CONNECTOR (VGA1)



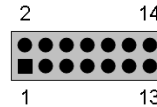
PIN	SIGNAL	PIN	SIGNAL
1	RED	9	+5V
2	GREEN	10	GND
3	BLUE	11	NC
4	NC	12	SDA
5	GND	13	HSYNC
6	GND	14	VSYNC
7	GND	15	SCL
8	GND		

### 3.19 DVI-D CONNECTOR (DVI1)



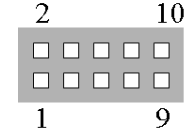
PIN	SIGNAL	PIN	SIGNAL
1	GND	26	TD0+
2	TD0-	25	GND
3	TD1+	24	TD1-
4	GND	23	TD2+
5	TD2-	22	GND
6	TCK+	21	TCK-
7	HPD	20	SCL1
8	VCC	19	SDATA1
9	RED	18	GND
10	GREEN	17	GND
11	BLUE	16	GND
12	VSYNC	15	SCL2
13	HSYNC	14	SDATA2

### 3.20 TV-OUT (TVCON1) (AR-B5230SD ONLY)



PIN	SIGNAL	PIN	SIGNAL
1	Y-G	2	N/A
3	GND	4	N/A
5	CVBS/Pb-G	6	N/A
7	GND	8	N/A
9	C/Pr-G	10	N/A
11	GND	12	N/A
13	GND	14	N/A

### 3.21 COM2 (COM2)



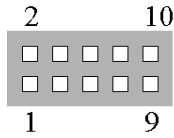
PIN	SIGNAL	PIN	SIGNAL
1	/DCDB	2	/DSRB
3	RXDB	4	/RTSB
5	TXDB	6	/CTSB
7	/DTRB	8	/RIB
9	GND		

### 3.22 COM1 (COM1)



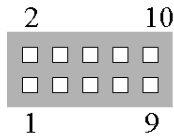
PIN	SIGNAL	PIN	SIGNAL
1	/DCDB	2	/DSRB
3	RXDB	4	/RTSB
5	TXDB	6	/CTSB
7	/DTRB	8	/RIB
9	GND		

### 3.23 COM3 (COM3)



PIN	SIGNAL	PIN	SIGNAL
1	/DCDB	2	/DSRB
3	RXDB	4	/RTSB
5	TXDB	6	/CTSB
7	/DTRB	8	/RIB
9	GND		

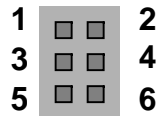
### 3.24 COM4 (COM4)



PIN	SIGNAL	PIN	SIGNAL
1	/DCDB	2	/DSRB
3	RXDB	4	/RTSB
5	TXDB	6	/CTSB
7	/DTRB	8	/RIB
9	GND		

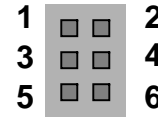
### 3.25 SYSTEM FAN (FAN2)

### 3.26 SWITCH BOTTON (J1)



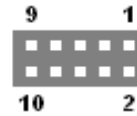
SET	SIGNAL
1-2	SPEAKER
3-4	RESET
5-6	POWER BOTTERN

### 3.27 RS232/422/485 SWITCH (JP2)



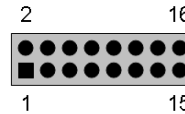
SET	SIGNAL
1-2	RS232
3-4	RS422
5-6	RS485

### 3.28 GPIO (GPIO1)



PIN	SIGNAL	PIN	SIGNAL
1	GPIO0	2	VCC
3	GPIO1	4	GPIO7
5	GPIO2	6	GPIO6
7	GPIO3	8	GPIO5
9	GND	10	GPIO4

### 3.29 AUDIO CONNECTOR (AUDIO1)



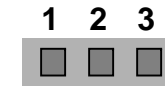
PIN	SIGNAL	PIN	SIGNAL
1	LINE OUT R	2	LINE OUT L
3	GND	4	N.A
5	LINE IN R	6	LINE IN L
7	GND	8	N.A
9	N/A	10	MIC IN
11	GND	12	GND
13	N/A	14	N/A
15	N/A	16	N/A

### 3.30 RS422/RS485 CONNECTOR (J2)



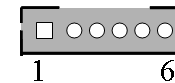
SET	SIGNAL
1	TX+
2	TX-
3	RX+
4	RX-

### 3.31 PANEL POWER SELECTOR (JP5)



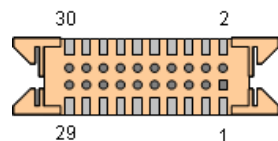
SET	SIGNAL
1-2	3.3V
2-3	5V

### 3.32 LVDS POWER (CN3)



PIN	SIGNAL	PIN	SIGNAL
1	+12V	2	+12V
3	GND	4	+5V
5	GND	6	NC

### 3.33 LVDS CONNECTOR (LVDS1)



PIN	SIGNAL	PIN	SIGNAL
1	VDD	2	GND
3	TXCLKU-	4	TXCLKU-
5	GND	6	TXOUT U2-
7	TXOUT U2+	8	GND
9	TXOUT U1-	10	TXOUT U1+
11	NC	12	NC
13	TXOUT U0+	14	TXOUT U0-
15	GND	16	TXCLK L+
17	TXCLK L-	18	GND
19	TXOUT L2+	20	TXOUT L2-
21	SMBCLK	22	TXOUT L1+
23	TXOUT L1-	24	SMBDATA
25	TXOUT L0+	26	TXOUT L0-
27	NC	28	NC
29	VDD	30	VDD

### 3.34 DDR2 SO-DIMM (DDR1)

### 3.35 CF SOCKET (CF1)

### 3.36 FSB SELECT (JP8,JP9)

FSB	JP8	JP9
100MHz	2-3	1-2
133MHz	2-3	2-3