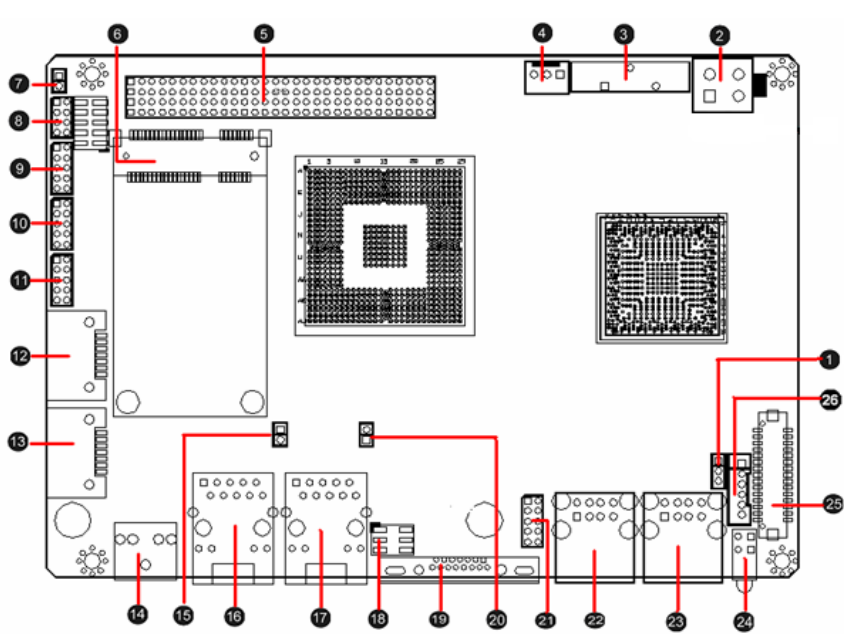
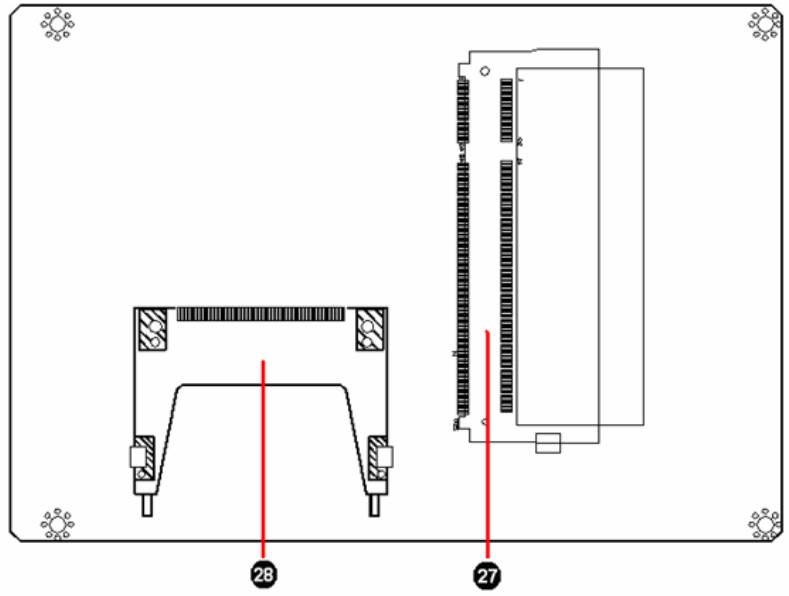
AR-B6050 Quick Manual V1.0

1. Main board illustration (Top Side)



1	JP1	10	COM1	19	VGA1
2	ATX1	11	COM2	20	J1
3	BAT1	12	SATA2	21	USB3
4	SYSFAN1	13	SATA1	22	USB1
5	CN2	14	CN4	23	USB2
6	CN3	15	JP3	24	LED1
7	JP2	16	LAN1	25	LVDS1
8	J7	17	LAN2	26	CN1
9	GPIO1	18	J6		

Main board illustration (Bottom Side)



27	SODIMM1
28	CF

2. Connectors and Jumper Settings

1. JP1: LCD panel driving voltage selection.

STATUS	SETTING
1-2	+3.3V (Default).
2-3	+5V

2. ATX1: AT power input connector.

PIN	SETTING
1	GND
2	GND
3	+12V
4	+12V

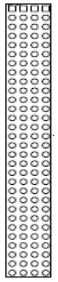
3. BAT1: CMOS battery holder.

CMOS battery holder.

4. SYSFAN1: System DC Fan connector.

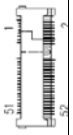
PIN	SETTING
1	GND
2	+12V
3	Fan speed data

5. CN2: PCI-104 connector.



PCI-104 connector.

6. CN3: MINI PCI-E connector.

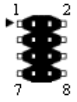


MINI PCI-E connector.

7. JP2: Signal SERIRQ connects to PCI-104 pin #B1 selection.

STATUS	SETTING
Open	Disconnected. (Default)
Short	Connected.

8. J7: COM1/2 SELECT RI OR +12V



PIN	SIGNAL	PIN	SIGNAL
1	RI#1	2	RI#1_12V
3	+12V	4	RI#1_12V
5	RI#2	6	RI#2_12V
7	+12V	8	RI#2_12V

9. GPIO1: GPIO connector.

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

10. COM1: RS232 signal connector for port #1.

PIN	SETTING	PIN	SETTING
1	DCD #1	2	DSR #1
3	RX #1	4	RTS #1
5	TX #1	6	CTS #1
7	DTR #1	8	RI #1
9	GND	10	GND

11. COM2: RS232 signal connector for port #2.

PIN	SETTING	PIN	SETTING
1	DCD #2	2	DSR #2
3	RX #2	4	RTS #2
5	TX #2	6	CTS #2
7	DTR #2	8	RI #2
9	GND	10	GND

12. SATA1: SATA device connector #1.

SATA device connector #1.

13. SATA2: SATA device connector #2.

SATA device connector #2.

14. CN4: Audio signal connector.

Audio line out

15. JP3: CF MASTER SELECT

SET	SIGNAL
SHORT	MASTER
OPEN	SLAVE

16. LAN1: RJ45 connector for Gigabit Ethernet port #1.

RJ45 connector for Gigabit Ethern*et* port #1.

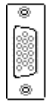
17. LAN2: RJ45 connector for Gigabit Ethernet port #2.

RJ45 connector for Gigabit Ethern*et* port #2.

18. J6: Front panel connector.

STATUS	SETTING
1-2	Hardware reset
3-4	AT Mode - Short ATX Mode - Open
5-6	Power Button

19. VGA1: D-SUB-15 female connector for VGA output.



D-SUB-15 female connector for VGA output.

20. J1: CMOS data clear

SHORT CMOS data clear

21. USB3: Internal USB2.0 connector

PIN	SETTING	PIN	SETTING
1	+5V	2	+5V
3	USB5-	4	USB6-
5	USB5+	6	USB6+
7	GND	8	GND
9	GND	10	GND

22. USB1: USB connector

Upper: Port #2.
Lower: Port #1.

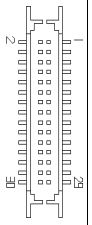
23. USB2: USB connector

Upper: Port #4.
Lower: Port #3.

24. LED1: System power and HDD access indicators.

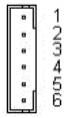
Green: System power indicator.
Yellow: HDD access indicator.

25. LVDS1: LCD panel inverter power connector.



PIN	SETTING	PIN	SETTING
1	LCD VDD	2	GND
3	NC	4	NC
5	GND	6	NC
7	NC	8	GND
9	NC	10	NC
11	NC	12	NC
13	NC	14	NC
15	GND	16	O CLK+
17	CLK-	18	GND
19	Data2+	20	Data2-
21	I2C CLK	22	Data1+
23	Data1-	24	I2C Data
25	Data0+	26	Data0-
27	NC	28	NC
29	LCD VDD	30	LCD VDD

26. CN1: LCD panel inverter power connector.

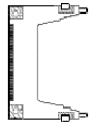


PIN	SETTING
1	+12V
2	+12V
3	GND
4	BKL ON
5	GND
6	Reserved.

27. DIMM1: DDR-II SODIMM Socket.

DDR-II SODIMM Socket.

28. CF1: Type-II compact flash card socket.



+3.3V CF card only and UDMA mode supported.