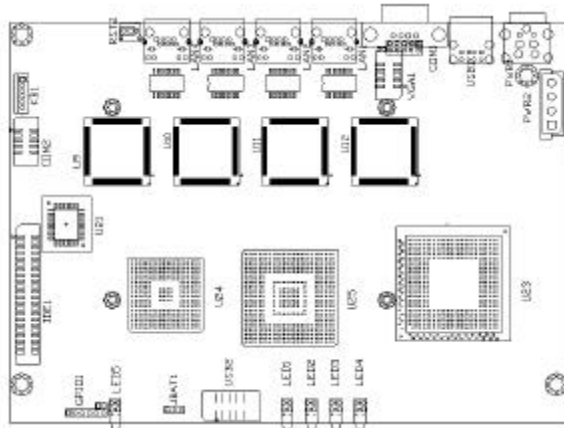


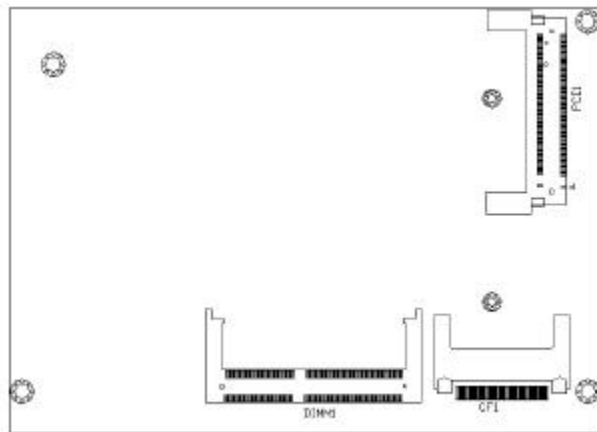
# AR-B1666B MANUAL

Version 1.01

## 1. SETTING UP THE SYSTEM



TOP PLACEMENT

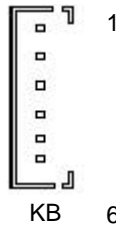


BOTTOM PLACEMENT

### 1.1 PACKING LIST

- The quick setup manual
- 1 AR-B1666B CPU board
- 1 Software utility CD
- 1 Mini Din power adapter

### 1.2 KEYBOARD & MOUSE CONNECTOR (KB1)



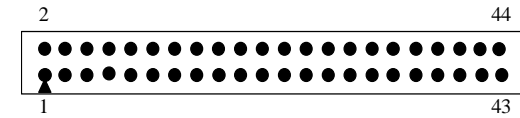
Pin #	Signal Name
1	MOUSE DATA
2	KB DATA
3	GND
4	VCC
5	MOUSE CLOCK
6	KB CLOCK

### 1.3 SDRAM SOCKET 144 PIN (DIMM1)



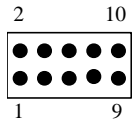
144 pin SO-DIMM

### 1.4 HARD DISK (IDE) CONNECTOR (IDE1) 44 Pin Hard Disk Connector (IDE1)



Pin	Signal	Pin	Signal
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	NOT USED
21	IDEDREQ	22	GROUND
23	-IOW A	24	GROUND
25	-IOR A	26	GROUND
27	IDEIORDYA	28	GROUND
29	-DACKA	30	GROUND
31	AIN T	32	GROUND
33	SA 1	34	Not Used
35	SA 0	36	SA 2
37	CS 0	38	CS 1
39	HD LED A	40	GROUND
41	VCC	42	VCC
43	GROUND	44	Not Used

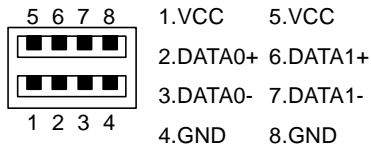
### 1.5 CRT CONNECTOR (VGA1)



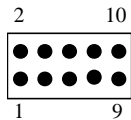
Pin #	Signal Name	Pin #	Signal Name
1	RED	6	AGND
2	AGND	7	V.S
3	GREEN	8	SCL
4	GND	9	H.S
5	BLUE	10	SDA

### 1.6 USB CONNECTOR (USB1,USB2)

#### USB1



#### USB2



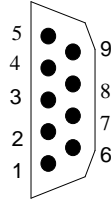
Pin #	Signal Name	Pin #	Signal Name
1	VCC	6	DATA3+
2	VCC	7	GND
3	DATA2-	8	GND
4	DATA3-	9	GND
5	DATA2+	10	GND

### 1.7 SERIAL PORT (COM1, COM2)

#### A. COM1

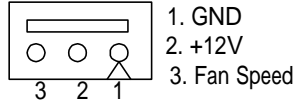
USED RS232

COM1

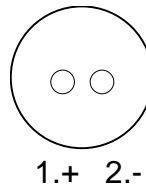


1.DCD 5.TX 9.GND  
2.DSR 6.CTS 10.X  
3.RX 7.DTR  
4.RTS 8.RI

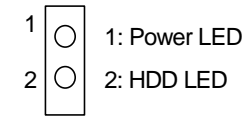
### 1.8 FAN POWER CONNECTOR (FAN1)



### 1.9 INTERNAL BUZZER (BUZ1)

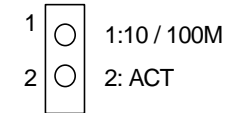


### 1.10 POWER/HD LED (LED5)

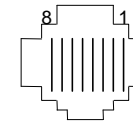


Power LED: External LED connector for Watchdog status indication.  
HDD LED (IDE1): External LED connector for primary IDE channel.

### 1.11 LAN LED (LED1, LED2, LED3, LED4.)

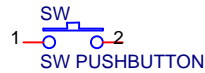


### 1.12 ETHERNET RJ-45 CONNECTOR (LAN1, LAN2, LAN3, LAN4)



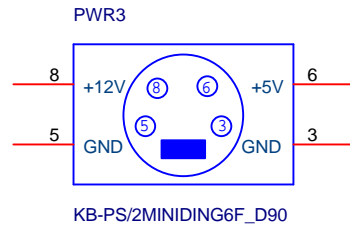
PIN (CN8)	FUNCTION
1	TPTX+
2	TPTX -
3	TPRX+
4	Not Used
5	Not Used
6	TPRX-
7	Not Used
8	Not Used

### 1.13 RESET BUTTON (RST1)

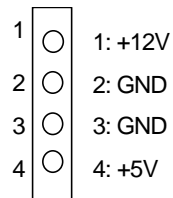


### 1.14 POWER CONNECTOR (PWR1&PWR2)

#### A.PWR1:



#### B:PWR2:



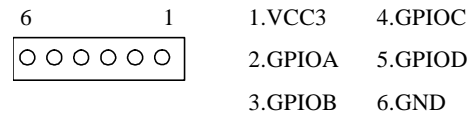
#### C: POWER SWITCH(J1)

Jumper	Function
Open	OFF
Short	ON

### 1.15 MINI PCI SLOT (PCI1)

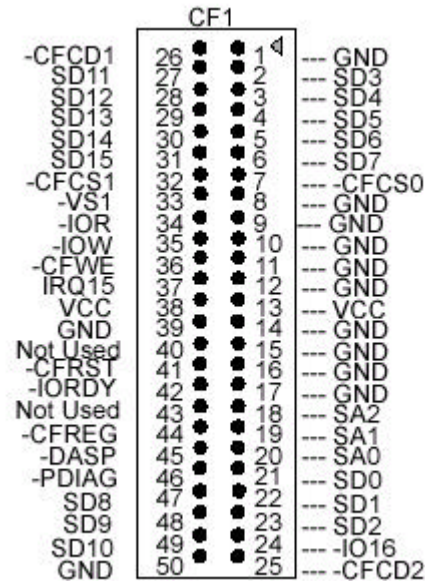
On board one mini PCI slot (PCI1)

### 1.16 GPIO PORT (GPIO1)



### 1.17 COMPACT FLASH SLOT (CF1)

Pin assignment is showed below.

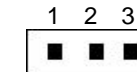


### 1.18 CF MASTER/SLAVE MODE SELECT (J2)

This 2-pins jumper will decide the CF operating in master/slave mode.

Jumper	Function
Open (Factory Preset)	Slave
Short	Master

### 1.19 CLEAR CMOS JUMPER (JBAT1)



Jumper	Function
(1-2)	Keep Data (Factory Preset)
(2-3)	Clear Data