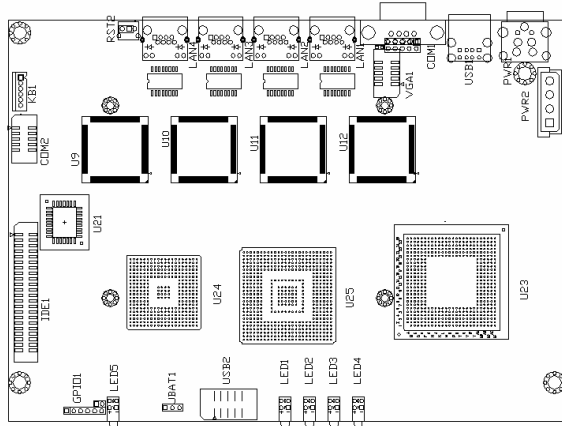


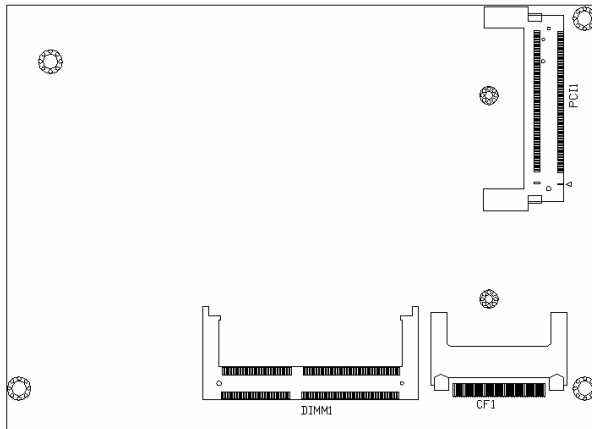
AR-B1666D MANUAL

Version 1.01

1. SETTING UP THE SYSTEM



TOP PLACEMENT

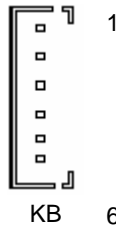


BOTTOM PLACEMENT

1.1 PACKING LIST

- The quick setup manual
- 1 AR-B1666D 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

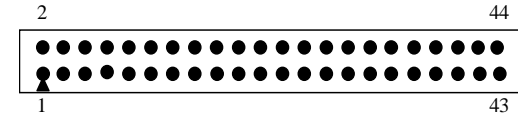
1.3 SDRAM SOCKET 144 PIN (DIMM1)



144 pin SO-DIMM

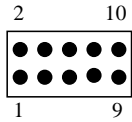
1.4 HARD DISK (IDE) CONNECTOR (IDE1)

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

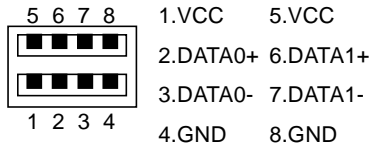
1.5 CRT CONNECTOR (VGA1)



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

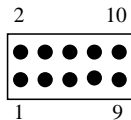
1.6 USB CONNECTOR (USB1,USB2)

■ USB1



- 1.VCC 5.VCC
- 2.DATA0+ 6.DATA1+
- 3.DATA0- 7.DATA1-
- 4.GND 8.GND

■ USB2



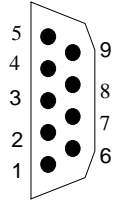
Pin #	Signal Name	Pin #	Signal Name
1	VCC	6	DATA3+
2	VCC	7	GND
3	DATA2-	8	GND
4	DATA3-	9	GND
5	DATA2+	10	GND

1.7 SERIAL PORT (COM1, COM2)

A. COM1

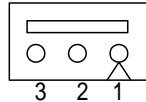
USED RS232

COM1



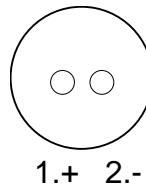
- 1.DCD 5.TX 9.GND
- 2.DSR 6.CTS 10.X
- 3.RX 7.DTR
- 4.RTS 8.RI

1.8 FAN POWER CONNECTOR (FAN1)

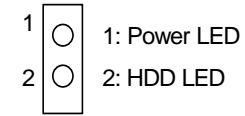


- 1. GND
- 2. +12V
- 3. Fan Speed

1.9 INTERNAL BUZZER (BUZ1)



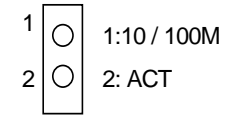
1.10 POWER/HD LED (LED5)



- 1: Power LED
- 2: HDD LED

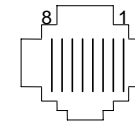
Power LED: External LED connector for Watchdog status indication.
HDD LED (IDE1): External LED connector for primary IDE channel.

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



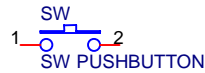
- 1:10 / 100M
- 2: ACT

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



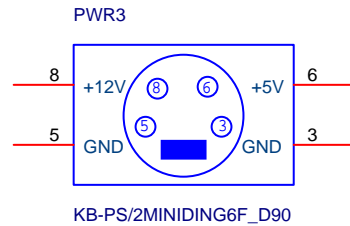
PIN (CN8)	FUNCTION
1	TPTX+
2	TPTX -
3	TPRX+
4	Not Used
5	Not Used
6	TPRX-
7	Not Used
8	Not Used

1.13 RESET BUTTON (RST1)

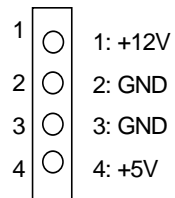


1.14 POWER CONNECTOR (PWR1&PWR2)

A.PWR1:



B:PWR2:



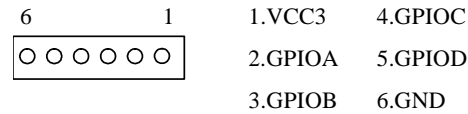
C: POWER SWITCH(J1)

Jumper	Function
Open	OFF
Short	ON

1.15 MINI PCI SLOT (PCI1)

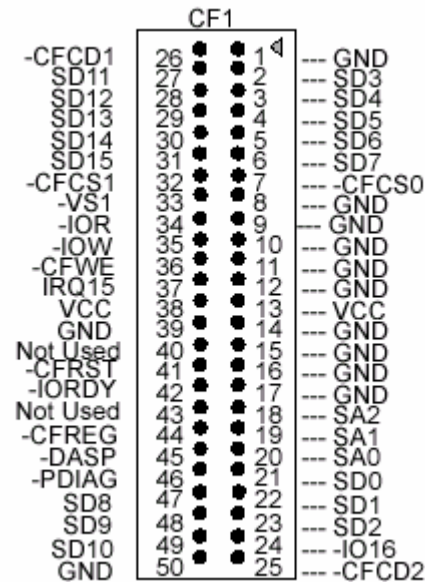
On board one mini PCI slot (PCI1)

1.16 GPIO PORT (GPIO1)



1.17 COMPACT FLASH SLOT (CF1)

Pin assignment is showed below.

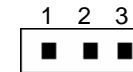


1.18 CF MASTER/SLAVE MODE SELECT (J2)

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