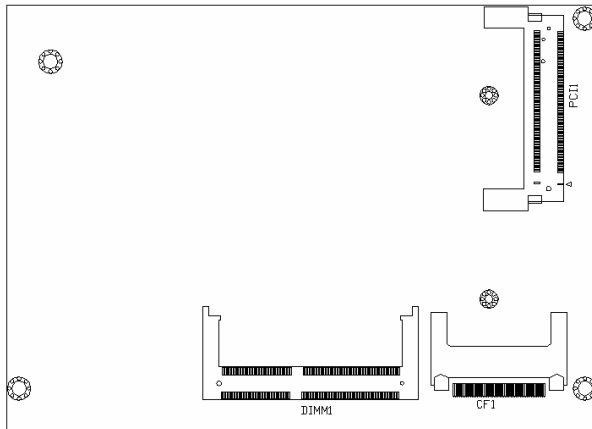
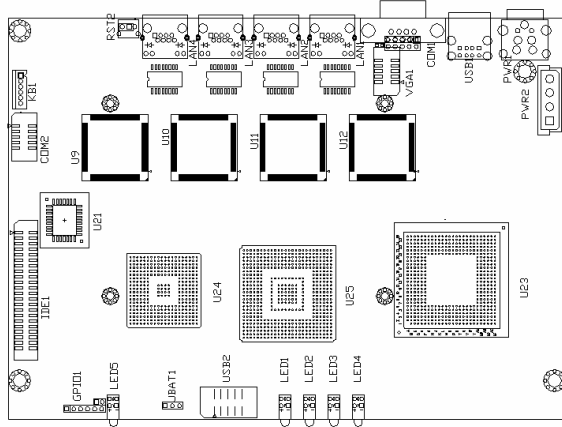


AR-B1666C MANUAL

Version 1.01

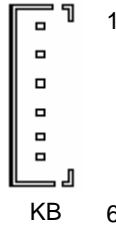
1. SETTING UP THE SYSTEM



1.1 PACKING LIST

- The quick setup manual
- 1 AR-B1666C CPU board
- 1 Software utility CD
- 1 Mini Din power adapter

1.2 KEYBOARD & MOUSE CONNECTOR (KB1)



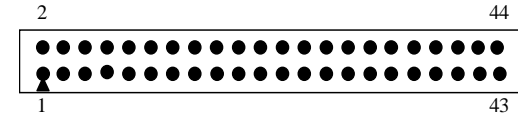
| Pin # | Signal Name |
|-------|-------------|
| 1 | MOUSE DATA |
| 2 | KB DATA |
| 3 | GND |
| 4 | VCC |
| 5 | MOUSE CLOCK |
| 6 | KB CLOCK |

1.3 SDRAM SOCKET 144 PIN (DIMM1)



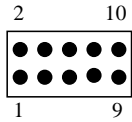
144 pin SO-DIMM

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 | AINT | 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 |

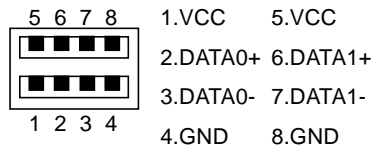
1.5 CRT CONNECTOR (VGA1)



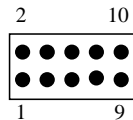
| Pin # | Signal Name | Pin # | Signal Name |
|-------|-------------|-------|-------------|
| 1 | RED | 6 | AGND |
| 2 | AGND | 7 | V.S |
| 3 | GREEN | 8 | SCL |
| 4 | GND | 9 | H.S |
| 5 | BLUE | 10 | SDA |

1.6 USB CONNECTOR (USB1,USB2)

■ USB1



■ USB2



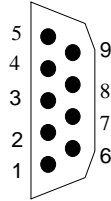
| Pin # | Signal Name | Pin # | Signal Name |
|-------|-------------|-------|-------------|
| 1 | VCC | 6 | DATA3+ |
| 2 | VCC | 7 | GND |
| 3 | DATA2- | 8 | GND |
| 4 | DATA3- | 9 | GND |
| 5 | DATA2+ | 10 | GND |

1.7 SERIAL PORT (COM1, COM2)

A. COM1

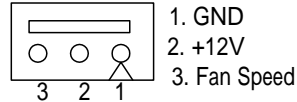
USED RS232

COM1

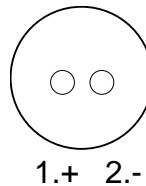


1.DCD 5.TX 9.GND
2.DSR 6.CTS 10.X
3.RX 7.DTR
4.RTS 8.RI

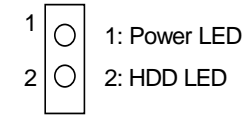
1.8 FAN POWER CONNECTOR (FAN1)



1.9 INTERNAL BUZZER (BUZ1)

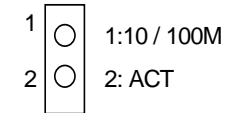


1.10 POWER/HD LED (LED5)

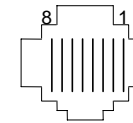


Power LED: External LED connector for Watchdog status indication.
HDD LED (IDE1): External LED connector for primary IDE channel.

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

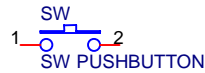


1.12 ETHERNET RJ-45 CONNECTOR (LAN1, LAN2, LAN3, LAN4)



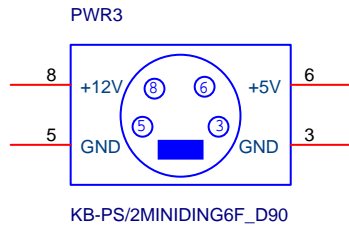
| PIN (CN8) | FUNCTION |
|-----------|----------|
| 1 | TPTX+ |
| 2 | TPTX - |
| 3 | TPRX+ |
| 4 | Not Used |
| 5 | Not Used |
| 6 | TPRX- |
| 7 | Not Used |
| 8 | Not Used |

1.13 RESET BUTTON (RST1)

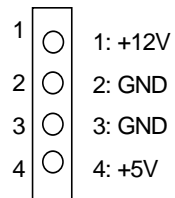


1.14 POWER CONNECTOR (PWR1&PWR2)

A.PWR1:



B:PWR2:



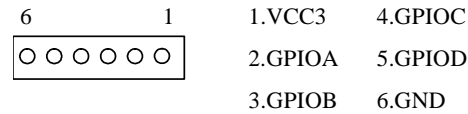
C: POWER SWITCH(J1)

| Jumper | Function |
|--------|----------|
| Open | OFF |
| Short | ON |

1.15 MINI PCI SLOT (PCI1)

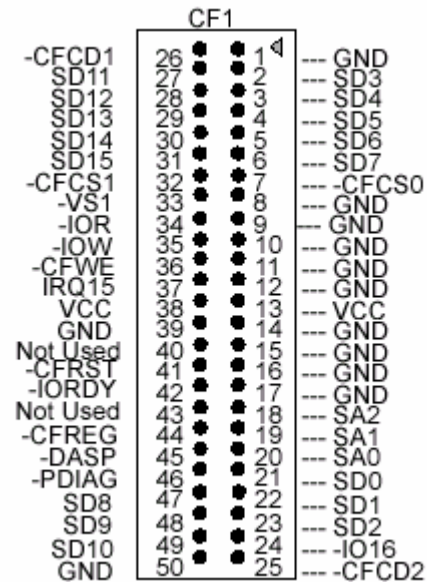
On board one mini PCI slot (PCI1)

1.16 GPIO PORT (GPIO1)



1.17 COMPACT FLASH SLOT (CF1)

Pin assignment is showed below.

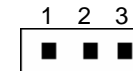


1.18 CF MASTER/SLAVE MODE SELECT (J2)

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 |