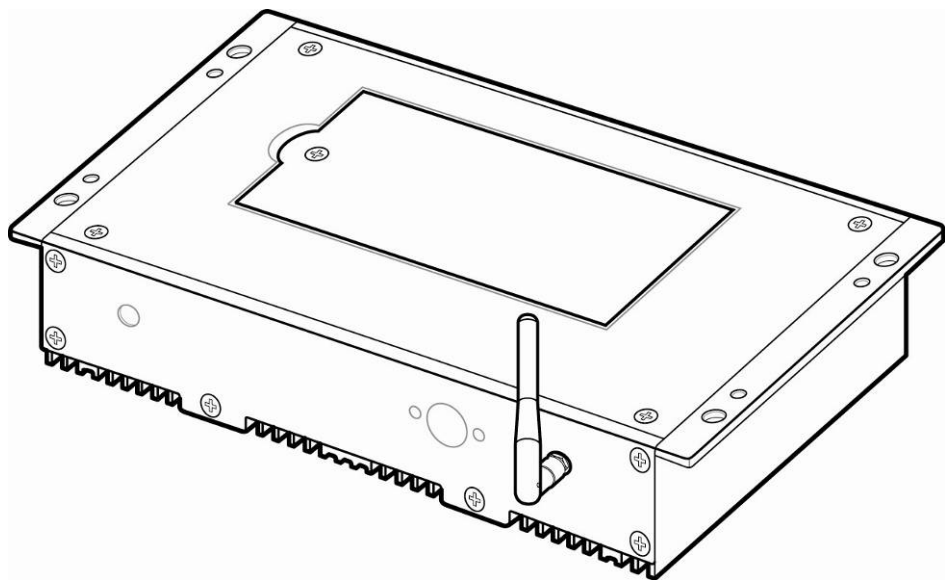


User Manual

GEH FBD7



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Manual Version 1.0
Part Number:

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK



This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”.

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

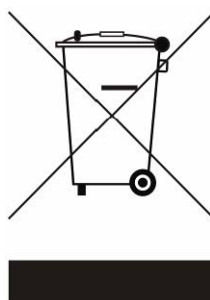
- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

LEGISLATION AND WEEE SYMBOL

2002/96/EC Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Revision History

Changes to the original user manual are listed below:

| Version | Date | Description |
|---------|-----------|---|
| 1.0 | Mar. 2009 | <ul style="list-style-type: none">Initial release |

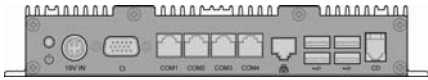
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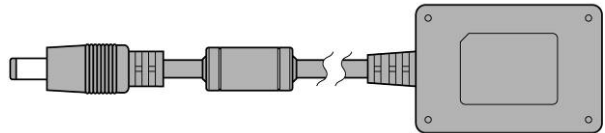
1 Package Checklist

1-1 Standard items

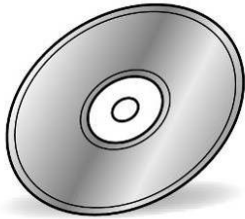
a.



d.



b.



e.



c.



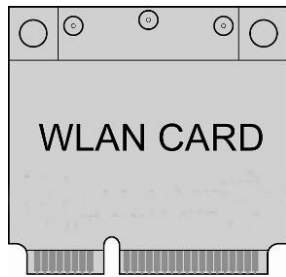
f.



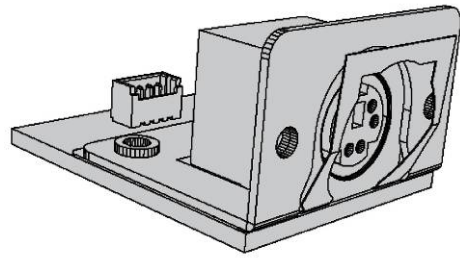
- a. Fanless Box PC
- b. Driver bank
- c. User Manual
- d. power adapter
- e. power cord
- f. RJ45 to DB9 cable (x2)

1-2 Optional items

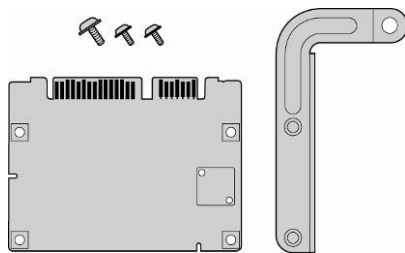
a.



c.



b.



d.

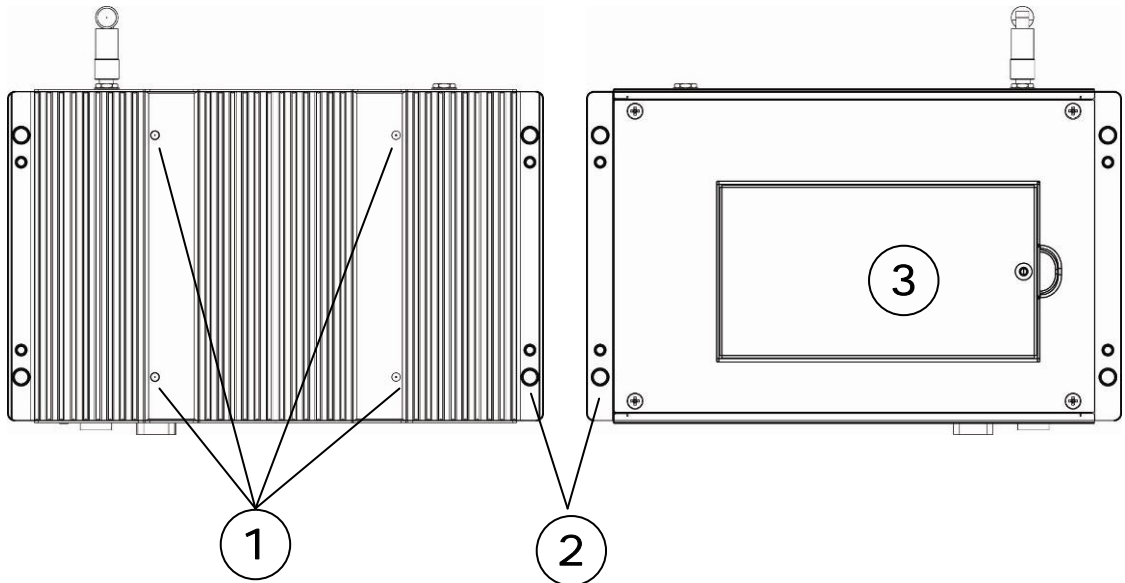


- a. WLAN Card (with external antenna)
- b. pSSD Card
- c. PS/2 Function Kit
- d. Audio Cable

2 System View

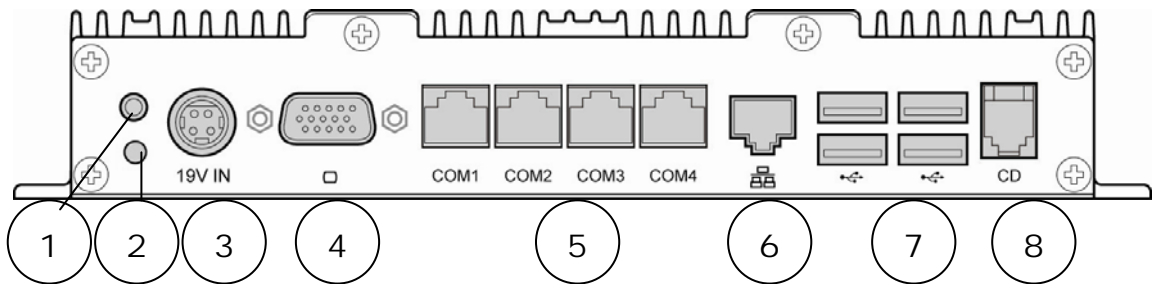
Top View

Bottom View

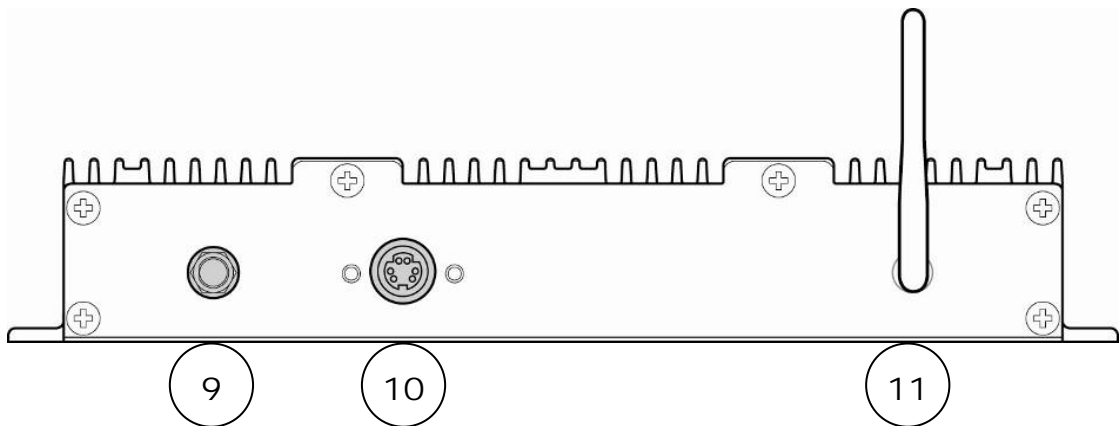


| No. | Description |
|-----|-------------------------------|
| 1 | Standard VESA Holes 100x100mm |
| 2 | Wall Mounting Holes |
| 3 | HDD Door |

Front I/O View



Rear I/O View



| No. | Description |
|-----|---------------------|
| 1 | Power Button |
| 2 | Power LED Indicator |
| 3 | DC Jack |
| 4 | 2nd VGA |
| 5 | Serial/COM (x4) |
| 6 | LAN (10 / 100/1000) |
| 7 | USB (x4) |
| 8 | Cash Drawer Port |
| 9 | Audio-out (Option) |
| 10 | PS/2 (Option) |
| 11 | Antenna (Option) |

3 System Assembly & Disassembly

3-1 Replace the HDD



1. Remove the screw (x1) that fix the HDD door to the control box.



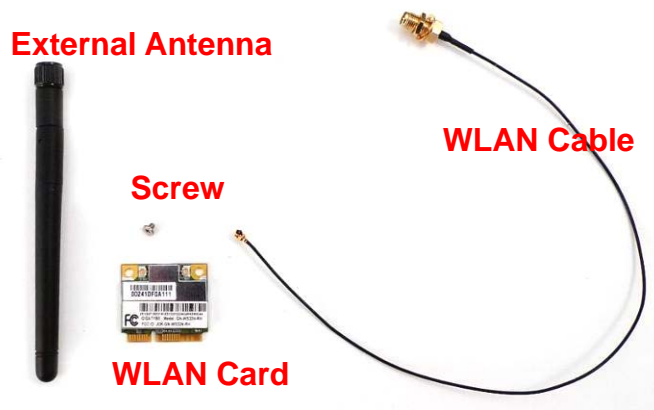
2. Disconnect the HDD cable (x1) and take out the HDD.

3-2 Open the Box PC



1. Remove the HDD first (see chapter 3-1).
2. Remove the screws (x4) to separate the metal rear cover from the box PC.

3-3 Install a WLAN



WLAN Card Module Accessory:

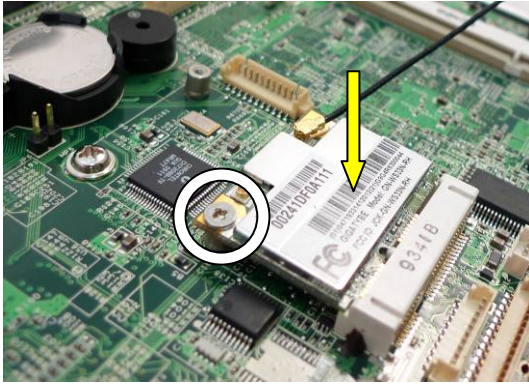
- (1). External Antenna x 1
- (2). WLAN Card x 1
- (3). Screw x 1
- (4). WLAN Cable x 1



1. Remove the HDD (see Chapter 3-1).
2. Open the box PC (see Chapter 3-2).
3. Connect the WLAN Cable to the “Main Connector” of the WLAN Card.



4. Slide the WLAN Card into the WLAN card slot.



5. Press down the WLAN and fasten the screw (x1) to fix the WLAN Card to the motherboard.



6. Open the blind hole on the box PC.

7. Align and thread the other end of antenna cable through the blind hole.



8. Assemble the antenna cable and rotate the washer to fix the antenna cable to the box PC.



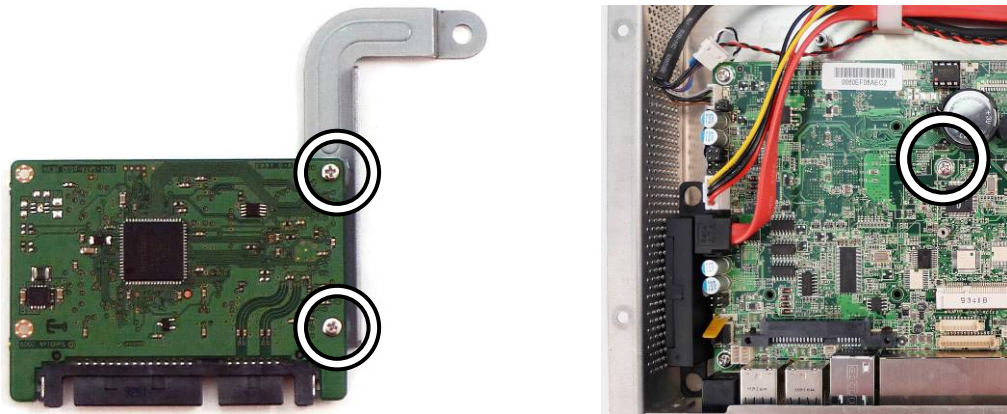
9. Screw the external antenna.

3-4 Install a pSSD Card

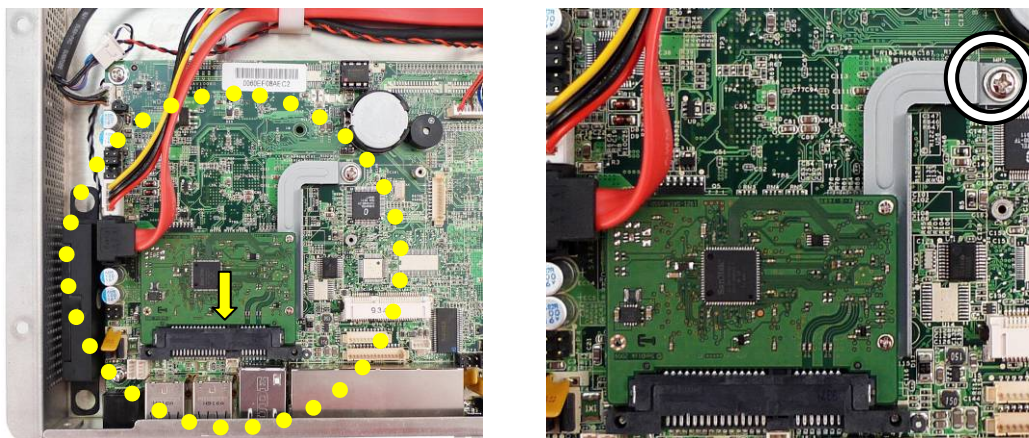


pSSD Card Module Accessory:

- (1). pSSD card x 1
- (2). Screws x 2
- (3). Metal bracket x 1



1. Open the box PC first (Chapter 3-1).
2. Assemble the metal bracket and the pSSD card by fastening the screws (x2).
3. Remove the screw (x1) fixing on the Motherboard.

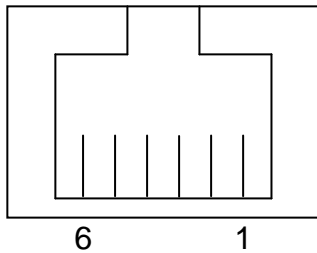


4. Slide the pSSD card module into the SSD/HDD slot as the position and location as above left picture shows.
5. Screw back the screw (x1) to fix the pSSD module to the Motherboard.

3-5 Install a Cash Drawer

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

Cash Drawer Pin Assignment



| Pin | Signal |
|-----|-----------|
| 1 | GND |
| 2 | DOUT bit0 |
| 3 | DIN bit0 |
| 4 | 12V / 19V |
| 5 | DOUT bit1 |
| 6 | GND |

Cash Drawer Controller Register

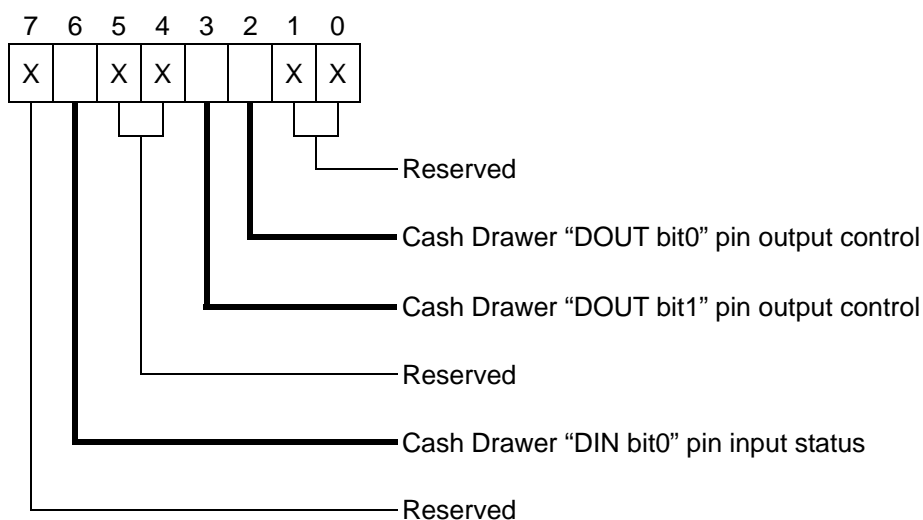
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 48Ch

Attribute: Read / Write

Size: 8bit

| BIT | BIT7 | BIT6 | BIT5 | BIT4 | BIT3 | BIT2 | BIT1 | BIT0 |
|-----------|----------|------|------|----------|-------|------|----------|------|
| Attribute | Reserved | | Read | Reserved | Write | | Reserved | |



Bit 7: Reserved

Bit 6: Cash Drawer "DIN bit0" pin input status.

= 1: the Cash Drawer closed or no Cash Drawer

= 0: the Cash Drawer opened

Bit 5: Reserved

Bit 4: Reserved

Bit 3: Cash Drawer "DOUT bit1" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 2: Cash Drawer "DOUT bit0" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 1: Reserved

Bit 0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

| Command | Cash Drawer |
|---|----------------|
| O 48C 04 | Opening |
| O 48C 00 | Allow to close |
| <p>➤ Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by "DOUT bit0" pin control.</p> <p>➤ Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.</p> | |

| Command | Cash Drawer |
|--|--------------|
| I 48C | Check status |
| <p>➤ The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist.</p> <p>➤ The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.</p> | |

3-6 Replace the Motherboard



1. Disconnect the HDD cable and remove the HDD (see Chapter 3-1)
2. Open the box PC (see Chapter 3-2).
3. Disconnect all the connectors connecting on the motherboard.
4. Unfasten the screws (x5) that fix the motherboard to the sheet metal bracket.
5. Slide out the motherboard with metal I/O bracket from the motherboard tray.



6. Unfasten the hex screws (x2).
7. Separate the metal I/O panel from the motherboard.

3-7 Install a PS/2 Function Kit

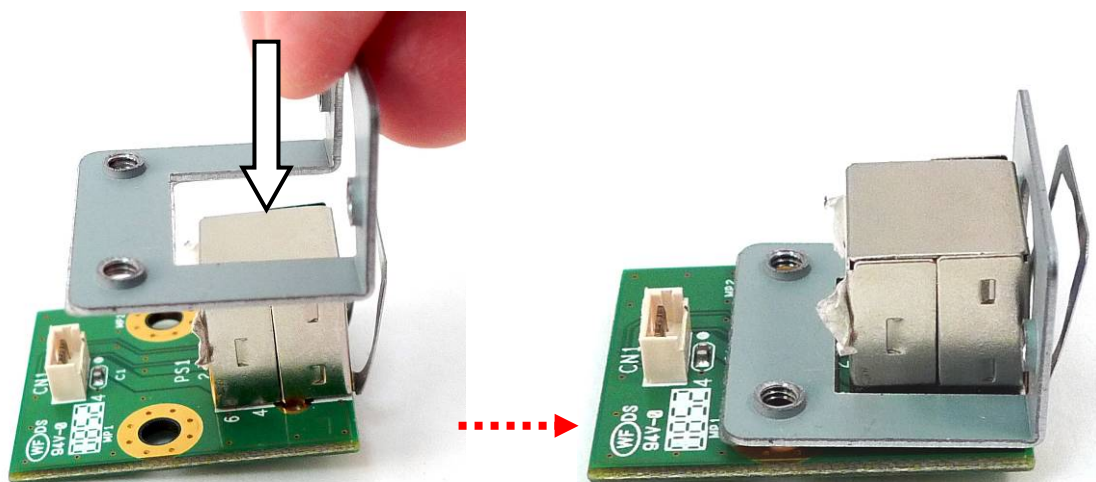
To install a PS/2 function kit, you need to follow the steps:

- (1) Remove the HDD (see Chapter 3-1)
- (2) Open the box PC (see Chapter 3-2)
- (3) Open the blind hole and assemble the PS/2 function kit to the system (see below)

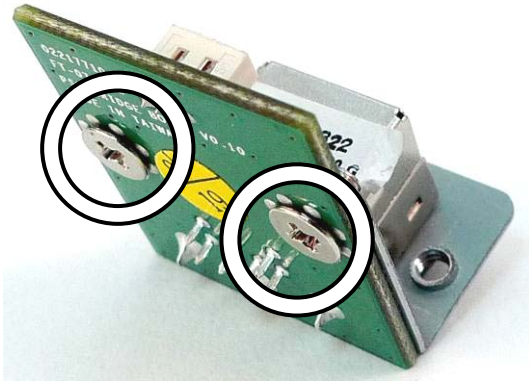
PS/2 Function:



1. Open the blind hole as the location as the circle shows.



2. Assemble the metal bracket into the right position of the PS/2 function board.



3. Turn the bottom up and fasten the screws (x2) to fix the metal bracket to the PS/2 function board.
4. Place the PS/2 module as the direction as the arrow shows.



5. Fasten the screws (x2) to fix the PS/2 function kit to the system metal chassis.

3-8 Install an Audio Cable

To install an audio cable, you need to follow the steps:

- (1) Remove the HDD (see Chapter 3-1)
- (2) Open the control box (see Chapter 3-2)
- (3) Open the blind hole and assemble the Audio cable to the system (see below)

Audio Cable

6 pin connector



Chassis-mount connector

Washer



1. Open the blind hole.
2. Insert the chassis-mount connector of audio cable through the hole.



3. Fasten the washer to the connector to fix the audio cable to the system metal chassis.

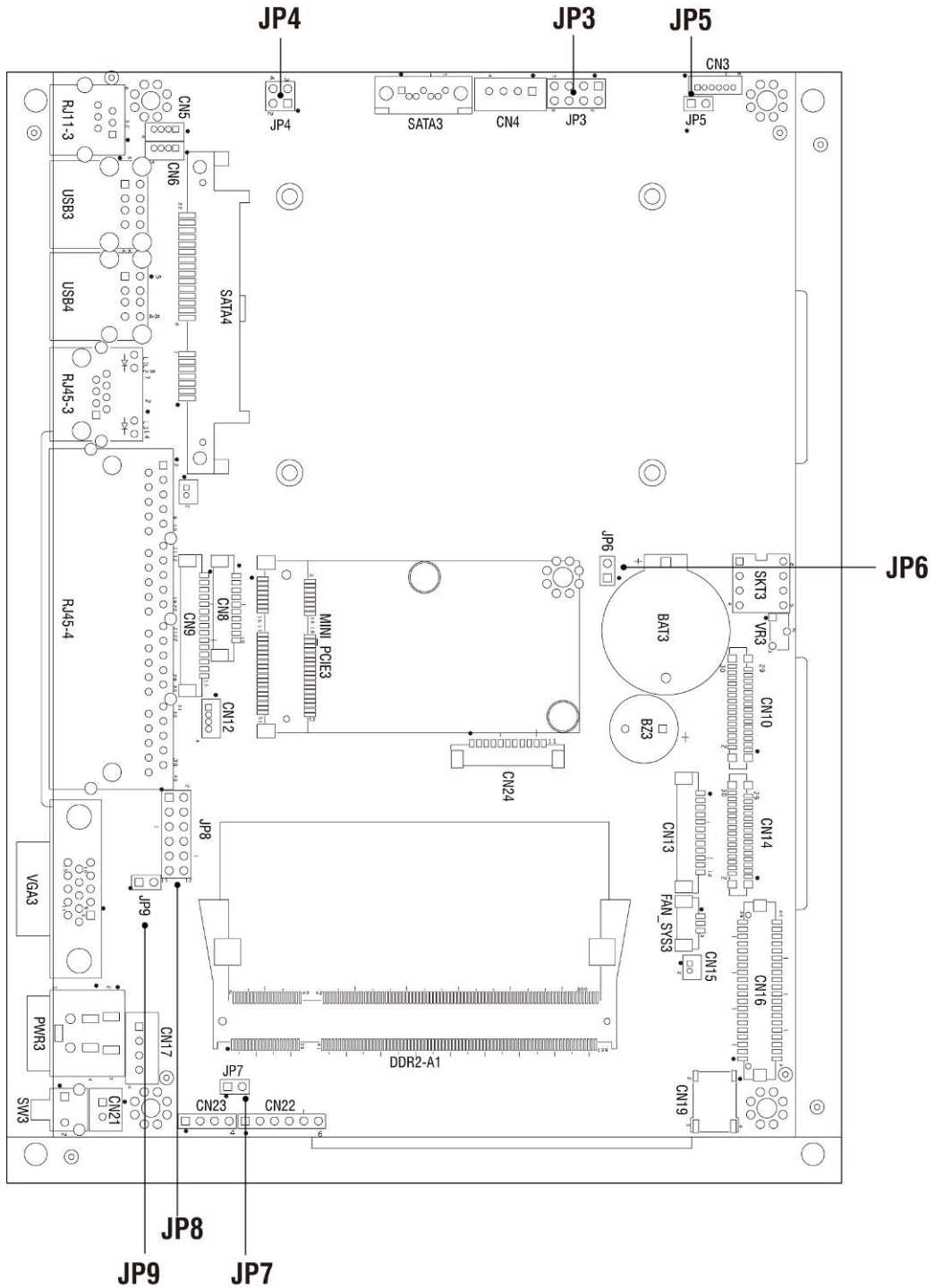
4 Specification

| | |
|-----------------------|---|
| Model Name | Control Box |
| Motherboard | C36A v1.1 |
| Processor | Intel® Atom™ N270 processor 1.6GHz L2 512K FSB 533MHz |
| Chipset | Intel® 945GSE + ICH7M |
| System Memory | 1 x DDR2 DIMM up to 2GB |
| Graphic Memory | Intel® GMA 950 share system memory up to 224MB |
| Storage Device | |
| Hard Drive | 1 x 2.5" slim SATA HDD |
| Flash Memory | 1 x pSSD (option) |
| Expansion | |
| Mini PCI Slot | 1 |
| Front I/O | |
| Line-out | 1 (option) |
| Antenna Jack | 1 |
| Rear I/O | |
| USB Port | 4 x USB 2.0 |
| Serial Port | 4 x RJ-45 (COM3 / COM4 with 5V / 12V power) |
| LAN Port | 1 x RJ-45 (10/100/1000Mbps Giga LAN) |
| VGA | 1 x DB-15F |
| Cash Drawer Port | Support cash drawer 1 x (12V / 24V) |
| DC Jack | 1 x DC-19V |
| Power LED Indicator | 1 |
| Power Button | 1 |
| Power | Adapter (DC 65W, 19V, 3.4A) |
| Certificate | |
| EMC & Safety | FCC Class A / CE Mark / LVD |
| Environment | |
| Operating Temperature | 5°C ~ 35°C (41°F ~ 95°F) |
| Storage Temperature | -20°C ~ 55°C (-4°F ~ 140°F) |
| Operating Humidity | 20% ~ 80% RH non-condensing |
| Storage Humidity | 20% ~ 85% RH non-condensing |

| | |
|------------------------------|--|
| Communication | |
| Wireless LAN | mini PCI-E wireless LAN card 801.11 b/g with external antenna (option) |
| Dimension (W x D x H) | 222 x 138 x 36.8 mm / 8.7" x 5.4" x 1.4" |
| Weight | 1.2kg (2.6lbs) |
| Mounting | 100mm x 100mm Standard VESA |
| OS Supported | Windows® XP Pro, Windows® XP Embedded, Windows® CE, Linux |

5 Jumper Settings

5-1 C36A V1.1 Motherboard Layout



5-2 Connectors Description



| Connector | Purpose |
|------------|------------------------------------|
| BAT3 | CMOS Battery Base (Use CR2023) |
| CN3 | Speaker & MIC Connector |
| CN4 | Power Connector For HDD |
| CN5 | USB5 |
| CN6 | USB7 |
| CN7 | LAN LED |
| CN9 | Card Reader Connector |
| CN12 | IrDA Connector |
| CN13 | Inverter Connector |
| CN15 | Power LED |
| CN16 | LCD Interface Connector |
| CN17 | Internal DC-JACK connector |
| CN21 | Internal Power On Switch Connector |
| CN22 | 5 Wire Touch |
| CN24 | FT Status Interface |
| DDR2_A1 | DDR2 SO-DIMM |
| PWR3 | +19V Power Adaptor |
| RJ11_3 | Cash Drawer Connector |
| RJ45_3 | LAN (On Board) |
| RJ45_4 | COM1, COM2, COM3, COM4 |
| FAN_SYS3 | System FAN Connector |
| MINI_PCIE3 | Mini PCI-E Socket |
| SATA3 | SATA Connector |
| SKT3 | SPI ROM |
| SW3 | Power On Button |
| USB3 | USB1, USB2 |
| USB4 | USB3, USB4 |
| VGA3 | VGA Port |

5-3 Jumper Settings



5-3-1 Cash Drawer Power Settings: JP4

| Function | JP4 (1-2) (3-4) |
|----------|---|
| +12V | 1 3  2 4 |
| ⊙+19V | 1 3  2 4 |

5-3-2 Power Mode Settings: JP5

| Function | JP5 (1-2) |
|------------|---|
| ⊙ATX Power |  |
| AT Power |  |

5-3-3 CMOS Operation Mode: JP6

| Function | JP6 (1-2) |
|--------------|---|
| ⊙CMOS Normal |  |
| CMOS Reset |  |

⊙ = Factory default settings

5-3-4 System Reset Settings: JP7



| Function | JP7 (1-2) |
|----------|--|
| ⊙Normal | <input type="checkbox"/> <input type="checkbox"/> |
| Reset | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |

5-3-5 COM3 & COM4 Power Settings: JP8

| Function | | JP8 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|----|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|---|---|---|---|----|----|----|
| COM3 Pin10 | RI | <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td></tr> </table> | | 1 | 3 | 5 | 7 | 9 | 11 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 2 | 4 | 6 | 8 | 10 | 12 |
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| ⊙+5V | <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td></tr> </table> | | 1 | 3 | 5 | 7 | 9 | 11 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 2 | 4 | 6 | 8 | 10 | 12 | |
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| +12V | <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td></tr> </table> | | 1 | 3 | 5 | 7 | 9 | 11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 2 | 4 | 6 | 8 | 10 | 12 | |
| | 1 | 3 | 5 | 7 | 9 | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 2 | 4 | 6 | 8 | 10 | 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| COM4 Pin10 | RI | <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td></tr> </table> | | 1 | 3 | 5 | 7 | 9 | 11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 2 | 4 | 6 | 8 | 10 | 12 |
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| | 2 | 4 | 6 | 8 | 10 | 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| +5V | <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td></tr> </table> | | 1 | 3 | 5 | 7 | 9 | 11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 2 | 4 | 6 | 8 | 10 | 12 | |
| | 1 | 3 | 5 | 7 | 9 | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
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| ⊙+12V | <table style="border-collapse: collapse; margin: auto;"> <tr><td></td><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td></tr> </table> | | 1 | 3 | 5 | 7 | 9 | 11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | 2 | 4 | 6 | 8 | 10 | 12 | |
| | 1 | 3 | 5 | 7 | 9 | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
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| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 4 | 6 | 8 | 10 | 12 | | | | | | | | | | | | | | | | | | | | | | | | |

⊙ = Factory default settings

5-3-6 VGA Power Settings: JP9

| Function | JP9 (1-2) |
|-----------|---|
| ⊙No Power |  |
| +12V |  |

5-3-7 Boot Display Device Settings: JP3





| Function | JP3 (1-2) (3-4) | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|-------------------------------------|---|---|---|---|--|-------------------------------------|-------------------------------------|--|--|--|-------------------------------------|-------------------------------------|--|--|--|---|---|---|---|
| Force CRT only | <table style="border-collapse: collapse; text-align: center;"> <tr> <td></td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> </tr> </table> | | 1 | 3 | 5 | 7 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | 2 | 4 | 6 | 8 |
| | 1 | 3 | 5 | 7 | | | | | | | | | | | | | | | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| | 2 | 4 | 6 | 8 | | | | | | | | | | | | | | | | | |
| ⊙Force LCD only | <table style="border-collapse: collapse; text-align: center;"> <tr> <td></td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> </tr> </table> | | 1 | 3 | 5 | 7 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | 2 | 4 | 6 | 8 |
| | 1 | 3 | 5 | 7 | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| | 2 | 4 | 6 | 8 | | | | | | | | | | | | | | | | | |

⊙ = Factory default settings

5-3-8 LCD ID Settings for LVDS Panel:

| Panel Number | Resolution | LVDS | | JP3 (5-6) (7-8) | | | | | | | | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|---|---|---|---|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|---|---|---|
| | | Bits | Channel | | | | | | | | | | | | | |
| 1 | 1024 x 768 | 24 | Single | <table style="border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>3</td><td>5</td><td>7</td> </tr> <tr> <td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td> </tr> <tr> <td>2</td><td>4</td><td>6</td><td>8</td> </tr> </table> | 1 | 3 | 5 | 7 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2 | 4 | 6 | 8 |
| 1 | 3 | 5 | 7 | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| 2 | 4 | 6 | 8 | | | | | | | | | | | | | |
| 2 | 1280 x 1024 | 24 | Dual | <table style="border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>3</td><td>5</td><td>7</td> </tr> <tr> <td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td>2</td><td>4</td><td>6</td><td>8</td> </tr> </table> | 1 | 3 | 5 | 7 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2 | 4 | 6 | 8 |
| 1 | 3 | 5 | 7 | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| 2 | 4 | 6 | 8 | | | | | | | | | | | | | |
| 3 | 800 x 600 | 18 | Single | <table style="border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>3</td><td>5</td><td>7</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td> </tr> <tr> <td>2</td><td>4</td><td>6</td><td>8</td> </tr> </table> | 1 | 3 | 5 | 7 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2 | 4 | 6 | 8 |
| 1 | 3 | 5 | 7 | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| 2 | 4 | 6 | 8 | | | | | | | | | | | | | |
| 4 | 1024 x 768 | 18 | Single | <table style="border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>3</td><td>5</td><td>7</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td>2</td><td>4</td><td>6</td><td>8</td> </tr> </table> | 1 | 3 | 5 | 7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2 | 4 | 6 | 8 |
| 1 | 3 | 5 | 7 | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| 2 | 4 | 6 | 8 | | | | | | | | | | | | | |

⊙ = Factory default settings

Note:    

OPEN

SHORT

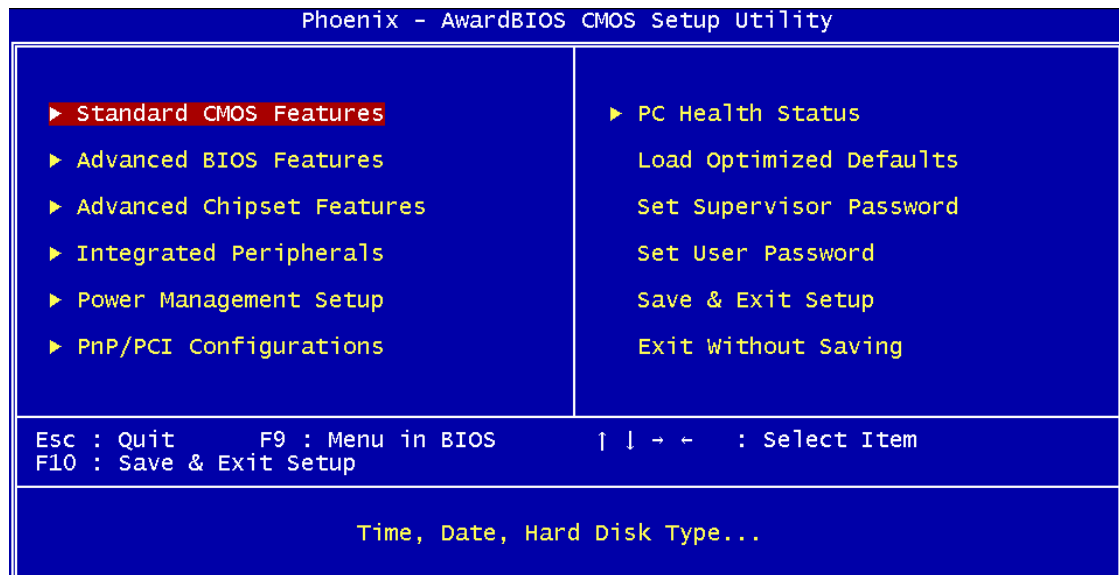
6

BIOS Settings

BIOS Main Menu

When the BIOS Main Menu is displayed, the following items can be selected. Use the arrow keys to select items and the Enter key to accept and enter the sub-menu.

Note: The BIOS setup menus shown in this section are for reference only and may not exactly match the items of your BIOS version.



Standard CMOS Features

Use this menu for basic system configuration.

Advanced BIOS Features

Use this menu to set the Advanced Features available on the system.

Advanced Chipset Features

Use this menu to change the values in the chipset registers and optimize the system's performance.

Integrated Peripherals

Use this menu to specify your settings for integrated peripherals.

Power Management setup

Use this menu to specify your settings for power management.

PnP/PCI Configurations

This entry appears if your system supports Plug and Play and PCI Configuration.

PC health status

Displays CPU, System Temperature, Fan Speed, and System Voltages Value.

Load Optimized Defaults

Use this menu to load the BIOS default values, i.e., factory settings for optimal performance system operations. While Award has designed the custom BIOS to maximize performance, the factory has the option to change these defaults to meet their needs.

Set Supervisor Password

Enables you to change, set, or disable the supervisor or user password.

Set Password

Change, set, or disable the password. It allows you to limit access to the system and to the setup, or just to the setup.

Save & exit setup

Save CMOS value changes to CMOS and exits setup.

Exit without saving

Ignores all CMOS value changes and exits setup.

Appendix

Drivers Installation:

The shipping package includes a Driver CD. You can find every individual driver and utility that enables you to install the drivers in the Driver CD.

Please insert the Driver CD into the drive and double click on the “index.htm” to pick up the models. You can refer to the drivers installation guide for each driver in the “Driver/Manual List”.