K48 Barebones Quick Guide 【English】

Front panel

F1. Power Switch
F2. Power LED
F3. HDD LED

Back panel

B1. AC Power Socket
B2. PS/2 Mouse Port
B3. PS/2 Keyboard Port
B4. COM Port
B5. VGA Port
B6. DVI Port
B7. USB2.0 Ports
B8. LAN Port
B9. MIC-In Port
B10. Front-Out (L/R) Port
B11. Line-In Port
B12. Wireless LAN Perforation
B13. Parallel Port Perforation

Mainboard illustration

Jumper Settings

C1 Front Panel Connector

Pin Assignments (JP8):

1=MIC2_L
2=AGND
3=MIC2_R
4=FRONT CTL
5=LINE2-R
6=SENSE1_RETURN
7=FRONT_SENSE
8=KEY
9=LINE2-L
10=SENSE2_RETURN

C2 Fan Connectors

C3 USB Connectors

Pin Assignments (USB3):

1=USBPW3
2=USBPW3
3=USBP2N
4=USBP3N
5=USBP2P
6=USBP3P
7=GND
8=GND
9=KEY
10=GND

Pin Assignments (USB4):

1=USBPW4
2=USBPW4
3=USBP6N
4=USBP7N
5=USBP6P
6=USBP7P
7=GND
8=GND
9=KEY
10=GND

C4 Clear CMOS Header

Pin Assignments (JP9):

1=RTC_RST-
2=-RTCRST
3=-RTCBTN

Pin1-2 (Default)

Pin2-3 (Clear CMOS)

C5 Power Button Connector

Pin Assignments (JP5):

1=HDLEDPWR
2=GRNLEDA
3=-HD_LED
4=GRNLEDB
5=BT_SEL
6=-PWRSW
7=GND
8=GND
9=NC
10=KEY

C6 Parallel Port Hearder

Pin Assignments:

1=PSTB	2=PD0	3=PD1	4=PD2
5=PD3	6=PD4	7=PD5	8=PD6
9=PD7	10=P_-ACK	11=P_BUSY	12=P_PE
13=P_SLCT	14=PAUTOFD	15=P_-ERR	16=PINIT
17=PSLCTIN	18=GND	19=GND	20=GND
21=GND	22=GND	23=GND	24=GND
25=GND	26=KEY		

Safety Information

Read the following precautions before setting up a Shuttle XPC.

CAUTION

Incorrectly replacing the battery may damage this computer.
Replace only with the same or equivalent as recommended by Shuttle.
Dispose of used batteries according to the manufacturer's instructions.

Laser compliance statement

The optical disc drive in this PC is a laser product.
The drive's classification label is located on the drive.

CLASS 1 LASER PRODUCT

CAUTION：INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM.

A. Begin Installation

Note: For safety reasons, please ensure that the power cord is disconnected before opening the case.

1. Unscrew 3 thumbscrews of the chassis cover.
2. Slide the cover backwards and upwards.

3. Unfasten the rack mount screws and remove the rack.

B. CPU Installation

Note: Proceed to step 1~3. Remove ICE™ Genie cooling module. * ICE™ Genie cooling module was optional and will include in K48 Series products in the future.

1. Unfasten the ICE™ Genie cooling Module thumbscrews on the back of the chassis.

2. Unfasten the four ICE™ Genie cooling Module attachment screws and unplug the fan connector.

3. Remove the ICE™ Genie cooling Module from the chassis and put it aside.
4. First unlock and raise the socket lever, lift the metal load plate on the CPU socket.

Note: This 775 pin socket is fragile and easily damaged. Always use extreme care when installing a CPU and limit the number of times that you remove or change the CPU.

5. Remove the protective socket cover.
6. Orientate the CPU and socket, aligning the yellow triangle on the cornerof the CPU with the triangle on the socket. Making sure the CPU is perfectly horizontal, insert the CPU into the socket. Close the load plate, lower the CPU socket lever and lock in place.

Note: Failure to correctly align the CPU and socket can result in damage to the CPU.

7. Spread an even layer of thermal compound on the CPU die.

Note: Please do not use too much Heatsink compound.

C. FAN Installation

Note: If you are installing the Intel CPU Fan, proceed to step 1. If you are installing the ICE Genie cooling module, proceed to step 2~4.* ICE™ Genie cooling module was optional and will include in K48 Series products in the future.

1. Screw the Intel CPU FAN to the mainboard and connect the fan connector.

Note: Please refer to the user guide of the Intel CPU FAN you bought to install the fan.

2. Screw the ICE™ Genie cooling Module to the mainboard. Note to press down on the opposite diagonal corner while tightening each screw.
3. Connect the fan connector.

4. Fasten the ICE™ Genie cooling Module to the chassis with the 4 thumbscrews.

D. DDR2 Installation

1. Unlock the DIMM latch.
2. Align the DDR2 module's cutout with the DIMM slot notch. Slide the DDR2 module into the DIMM slot.

3. Check that the latches are closed, and the DDR2 modules are firmly installed.

Note: Repeat to install additional DDR2 modules if desired.

E. HDD and Optical Drive Installation

1. Place the HDD in the rack and secure with screws from the side.

Note: Please install HDD in 1st 3.5″ bay .

2. Place the rack in the chassis and refasten the rack.

3. Plug the Serial ATA cable to the SATA1/SATA2 header.

4. Connect the Serial ATA and power cables to the HDD.

5. Remove the 5.25″ Bay Cover.
6. Slide the Optical Drive into the chassis and secure with screws from the side.

7. Plug the IDE Cable to the IDE1 Slot.

Note: Please plug IDE and SATA cable and be careful DO NOT touch or wired CPU Fan.

8. Connect the IDE Cable and Power Cables to the Optical Drive.

F. Complete

1. Replace the cover and refasten the thumbscrews.

2. Complete.

Note: Please load the optimized BIOS values.

The product's color will depend upon the actually shipping product.

PAR-MA3148-H006

K48 System Quick Guide 【 English 】

1 Connecting Keyboard and Mouse (PS/2 Mouse, PS/2 Keyboard Port)

2 Connecting Monitor (VGA Port or DVI Port)

3 Connecting USB device (USB Ports)

4 Connecting the Network (LAN Port)

5 Connecting Speaker (Front-Out Port)

8 Powering on the system (Power Switch)

7 Connecting Power (AC Power Socket)

6 Connecting Headphone & Microphone (Front-Out & MIC-In Port)

Customize Your Front Panel 【 English 】

1 Unfasten the front panel by removing the four screws. Remove both the transparent glass and the image.

2 Insert the new image and cover back the transparent glass on top.

3 Align and correspond the transparent glass and new image to screw holes on the front of the machine. Carefully screw back the four screws.

4 Congraduation, you have your customized image now.

The Good Design Product Mark aims to enhance the image of Taiwanese manufacturing. This mark is registered as a Service Mark under the Trademark Law of the National Bureau of Standards, Ministry of Economic Affairs. It is awarded to products deemed innovative by the Good Design Product Committee. This committee is composed of business, government and academic leaders, all invited by Taiwan's external Chinese trade council development council (CETRA) to carefully evaluate all entries. Primary judgment criteria are function, aesthetics and design. Of course, products that bear this mark represent good design.

優良設計產品
GOOD DESIGN PRODUCT

K48: A fan at the front panel

K48: A digital clock at the front panel

PN20 Quick Guide for K48 series (Optional) 【 English 】

☛ Follow the installation instructions listed below

Note: For safety reasons, please ensure that the power cord is disconnected before opening the case.

1. Unfasten the screws on the back panel and remove the case.
2. Use a 6mm screwdriver to puncture the perforated hole on the back panel from the outside in. Once the screwdriver can passthrough the hole, carefullysnap the metal tag off.

Note: If the cover still does not detach, carefully bend it by pushing down from the inside of the chassis.

3. Take out the Antenna cable connector and remove the lock, then install it to the PN20 Wireless Kit.
4. Install the PN20 into the module cover as shown below.

5. Screw the PN20 to the two holes on the upside of the chassis arm, near the rear of the XPC.

6. Install the antenna cable connector through the side reserve hole into the back chassis.

Caution: When inserting the cable connector, check the socket alignment and only push horizontally. Do not turn or twist the cable.

Note: If some difficulty is found while inserting the antenna socket into the reserve hole, make sure the surface is clean. Finally, check the alignment and then use some more force.

7. Use a lock to secure the antenna from the outside.

8. Take out the PN20's USB cable and plug to the USB header located on the motherboard. Double check all connections before continuing.

Note: Please make sure the red cable is on Pin 1 or Pin 2.

9. Connect PN20 to the USB port as shown below.

10. Screw the antenna onto the exposed thread. Set the antenna to vertical for good reception.

Note: Make sure all the connectors are aligned in the correct direction.

11. Attach the case and fasten the thumbscrews to complete the hardware installation.

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.