USER MANUAL

VERSION 1.3 June 2012

Metal Panel PC Hardware System

Copyright 2012
All Rights Reserved
Manual Version 1.3
Part Number: 3LMKK7500113

The information contained in this document is subject to change without notice. We make no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. We shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another language without the prior written consent of the manufacturer.

TRADEMARK

Intel®, Pentium® and MMX are registered trademarks of Intel® Corporation. Microsoft® and Windows® are registered trademarks of Microsoft Corporation. Other trademarks mentioned herein are the property of their respective owners.

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.

Battery Caution

Risk of explosion if battery is replaced by an incorrectly type. Dispose of used battery according to the local disposal instructions.

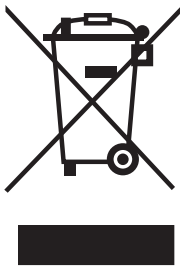
Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 “Materials for fire enclosure” compliant.

4.7.3.2 Materials for fire enclosures
For MOVABLE EQUIPMENT having a total mass not exceeding 18kg.the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.
For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

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 dust bin 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:

Revision	Description	Date
1.0	• Initial release	April 2011
1.1	• IdeaCom touch driver installation added	June 2011
1.2	• C68 MB added	March 2012
1.3	• C56 MB added	June 2012

Table of Contents

1. Packing List 1

1-1. Standard Items 1
1-2. Optional Items 2

2. System View 3

2-1. Front & Side View 3
2-2. Rear View 3
2-3. I/O view 4
2-4. Dimensions 5
2-4-1. 10.1" System 5
2-4-2. 15.6" System 6
2-4-3. 18.5" System 6
2-4-4. 21.5" System 6

3. System Assembly 7

3-1. Open the Chassis Cover 7
3-2. RAM Module Replacement 8
3-3. HDD Replacement 9

4. Peripheral Installation 11

4-1. MSR Installation 11
4-2. Stand Installation 12
4-3. Cash Drawer Installation 13

5. Specification 15

6. Jumper Setting..... 21

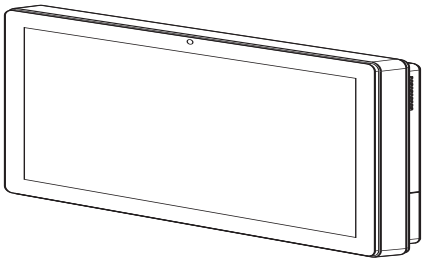
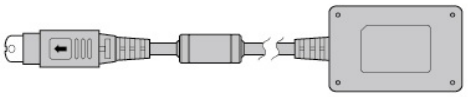
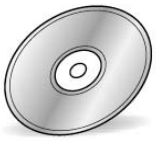
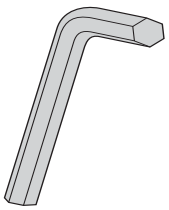
6-1. C48 Motherboard.....21
6-1-1. Motherboard Layout 21
6-1-2. Connectors & Functions 23
6-1-3. Jumper & BIOS/Utility Setting 24
6-2. C68 Motherboard.....30
6-2-1. Motherboard Layout 30
6-2-2. Connectors & Functions 31
6-2-3. Jumper Setting 32
6-3. C56 Motherboard.....37
6-3-1. Motherboard Layout 37
6-3-2. Connectors & Functions 38
6-3-3. Jumper Setting 39
6-4. IdeaCom Touch Driver Installation.....43
6-4-1. Gesture Setup example for WinXP.....47
6-4.2. Gesture Setup example for Win7.....51

Appendix: Drivers Installation 55

The page is intentionally left blank.

1. Packing List

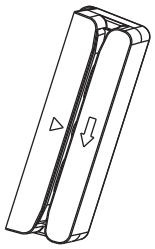
1-1. Standard Items

a. 	b. 
c. 	d.
e.	f.
g. 	

a. System
b. Power adapter
c. Driver bank
d. Power cord
e. User manual
f. RJ45-DB9 cable (x2)
g. Allen wrench

***Note**: Power cord will be supplied differently according to various region or country.*

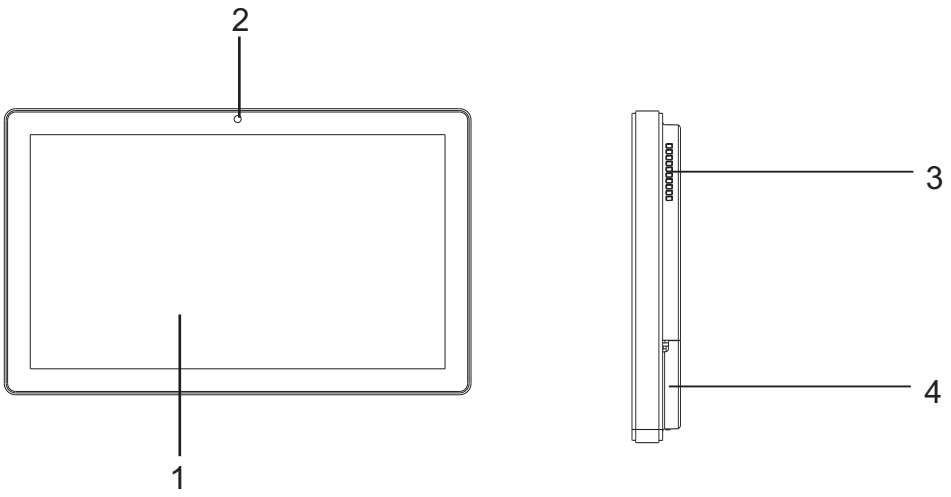
1-2. Optional Items



MSR

2. System View

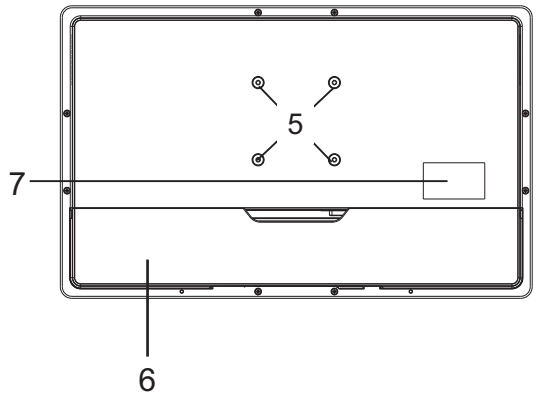
2-1. Front & Side View



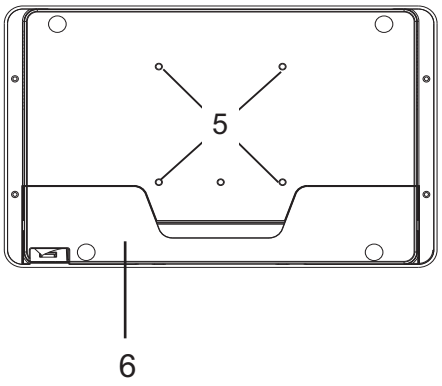
1. Touch screen
2. Built-in web cam
3. Ventilation
4. MSR cable hole

2-2. Rear View

K757 / K758 / K759



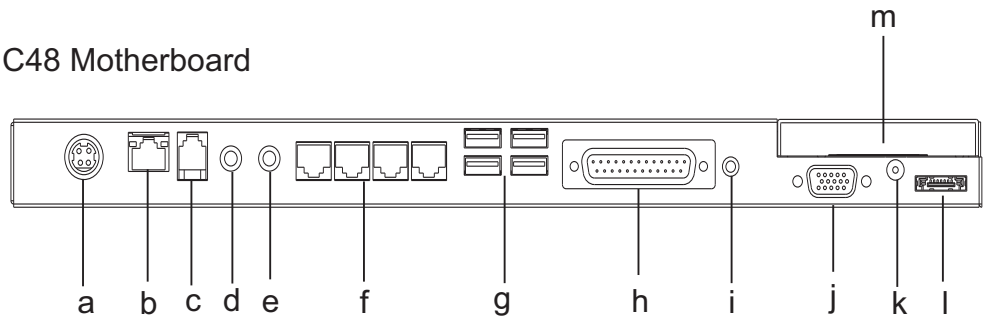
K755



5. VESA mounting holes
6. Cable cover
7. Safety label

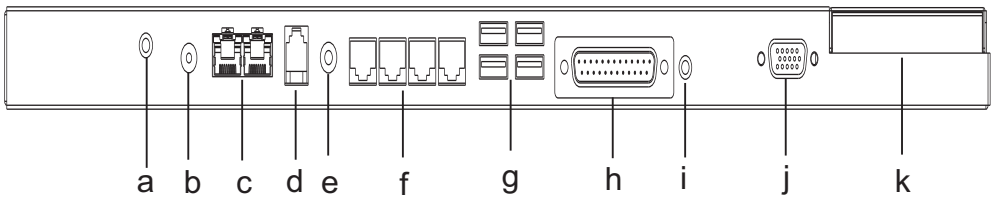
2-3. I/O view

C48 Motherboard



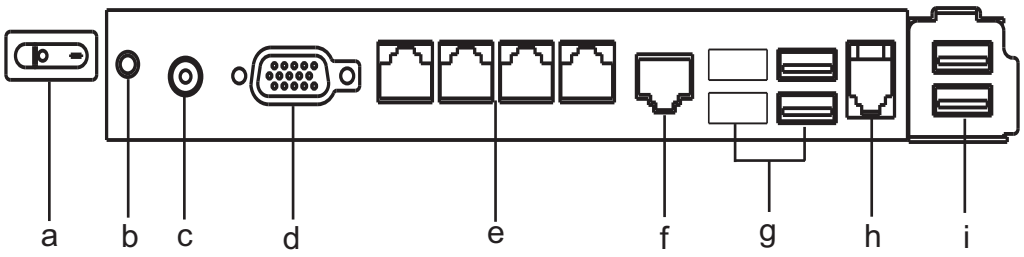
Item No.	Description
a	DC IN
b	LAN
c	Cash drawer
d	MIC IN
e	Line out
f	COM port 1, 2, 3, 4 (from left to right)
g	USB(x4)
h	Printer
i	Power button
j	VGA
k	HDD 5V
l	SATA (e-SATA)
m	HDD slot

C68 Motherboard



Item No.	Description
a	MIC IN
b	DC IN
c	LAN (x2)
d	Cash drawer
e	Line Out
f	COM port 1, 2, 3, 4 (from left to right)
g	USB(x4)
h	Printer
i	Power button
j	VGA
k	HDD slot

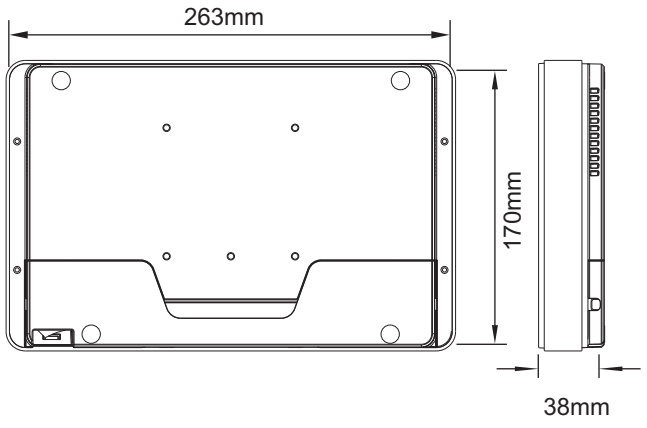
C56 Motherboard



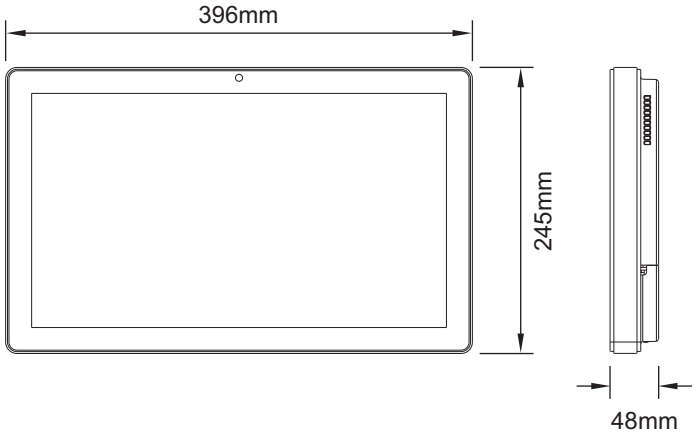
Item No.	Description
a	2nd power button
b	Power button
c	DC IN
d	VGA)
e	COM port 1, 2, 3, 4 (from left to right)
f	LAN
g	USBx4 (two optional USB)
h	Cash drawer
i	USB(x2)

2-4. Dimensions

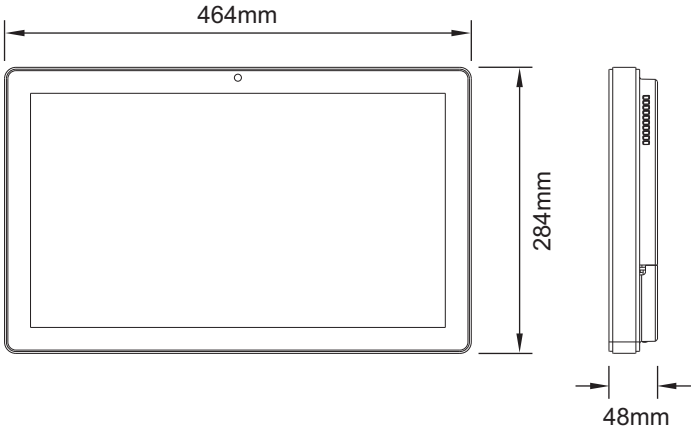
2-4-1. 10.1" System



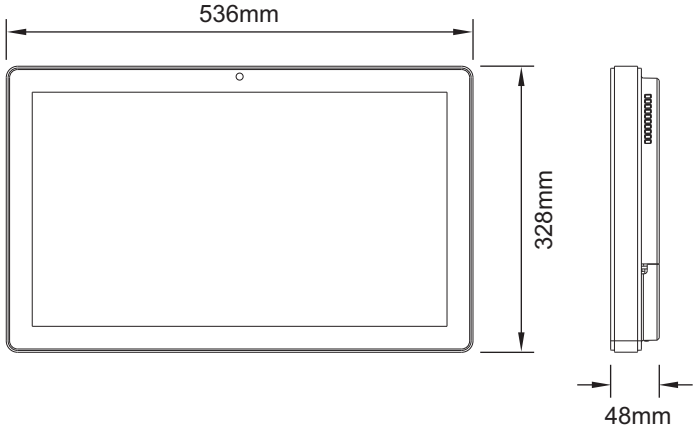
2-4-2. 15.6" System



2-4-3. 18.5" System



2-4-4. 21.5" System

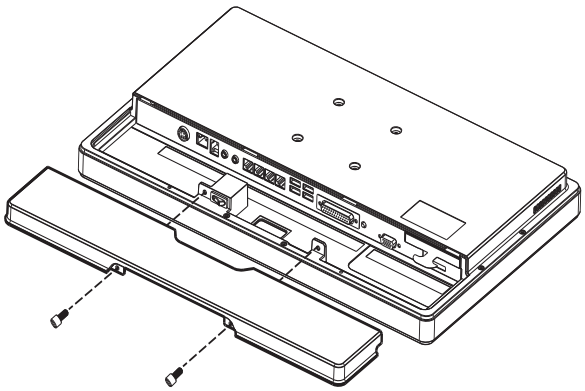


3. System Assembly

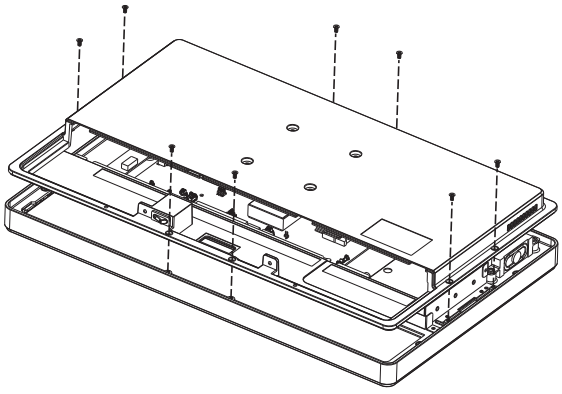
3-1. Open the Chassis Cover

The motherboard and RAM module can be replaced by opening the chassis cover, which is located on the back side of the system. Please follow the steps below to open the chassis cover.

1. Turn to the back side of the system and loosen the thumb screws (x2) to release the cable cover first.



2. Loosen the hex socket cap screws (x8) to open the back cover of the system.



* An allen wrench is included in the package for simple assembly. Please use it to tighten/loosen the screws.

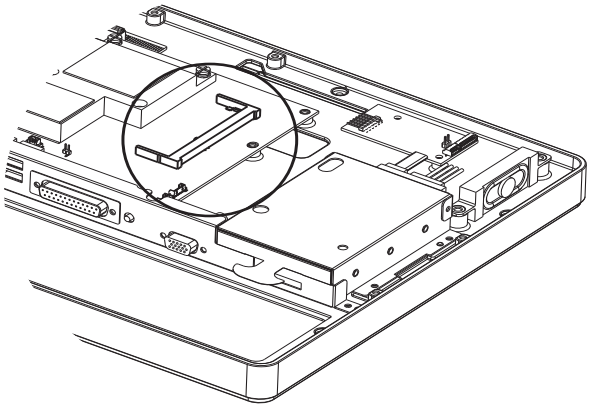
3-2. RAM Module Replacement

To remove and replace the RAM module, please open the chassis cover firstly as steps dscribed in chapter 3-1.

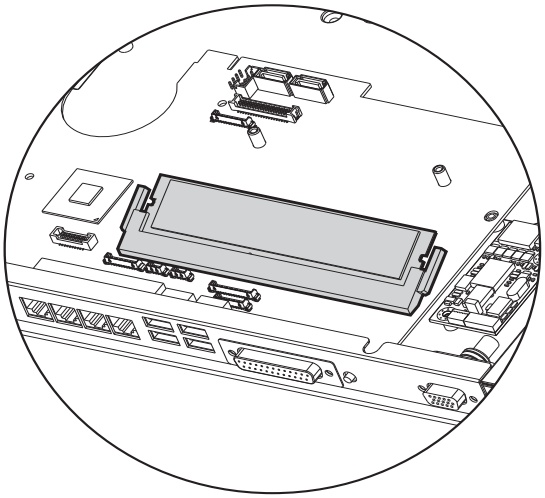
Removing a RAM module

1. Find the memory slot at the right side of the motherboard.

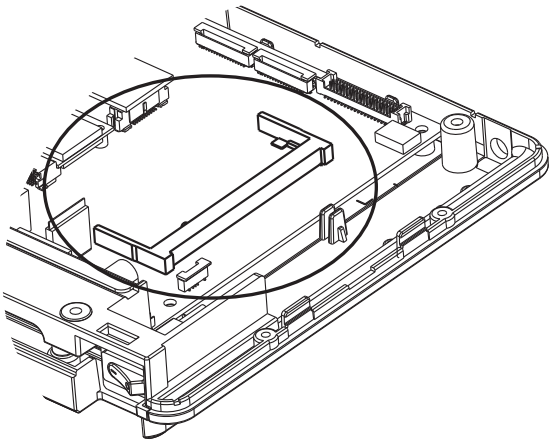
C48 Motherboard



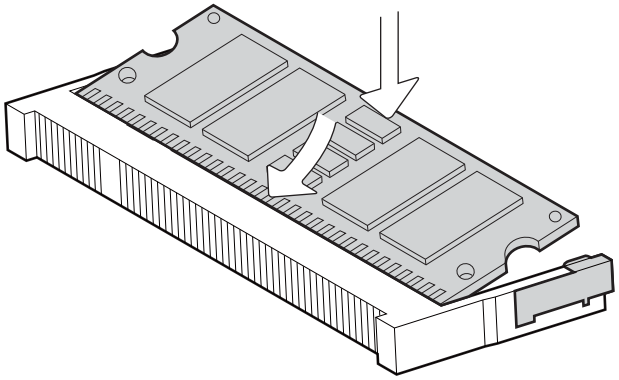
C68 Motherboard



C56 Motherboard

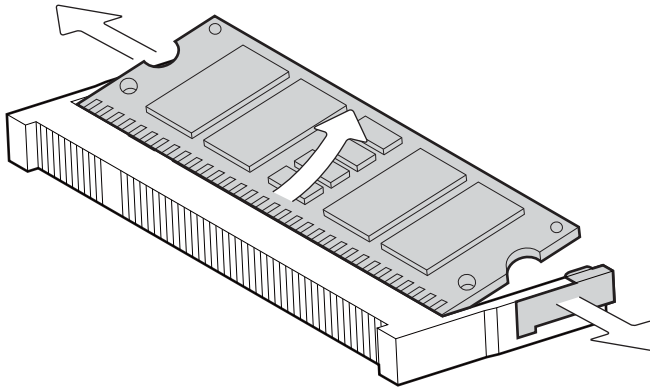


2. Flip the ejector clips outwards to remove the memory module from the memory slot.



Installing a RAM moudle

3. Slide the memory module into the memory slot and press down until the ejector clips snaps in place.

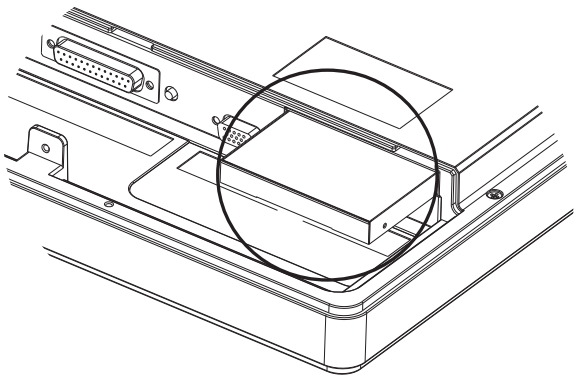


3-3. HDD Replacement

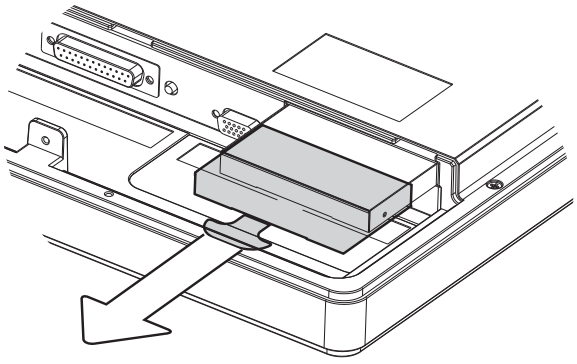
To remove and replace the HDD, please open the cable cover firstly as stpes dscribed in chapter 3-1-1.

K757 / K758 / K759

1. Find the HDD located at the right side.

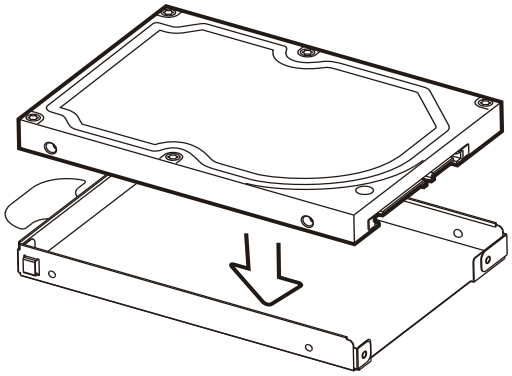


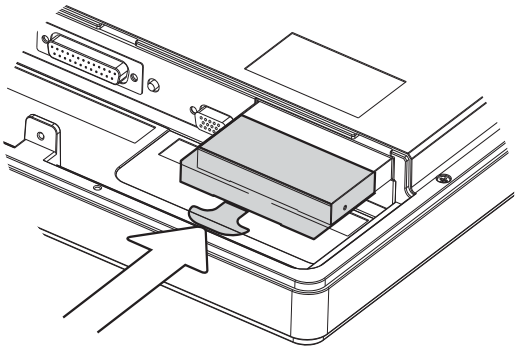
2. Pull the HDD tray from the system. For easier removal pull the plastic sheet (see picture) at the same time.



3. Attach the HDD to the HDD tray and slide it into the slot until it snaps in place.

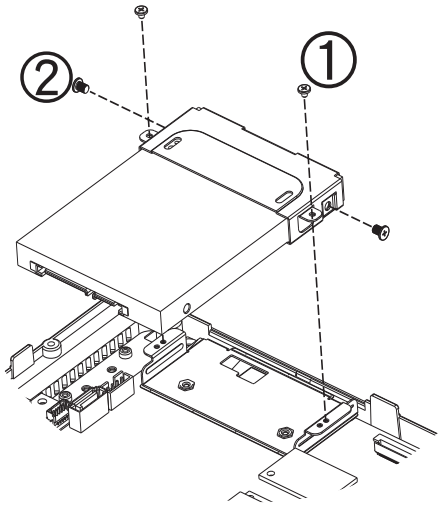
* Please note the top of the HDD should be on the upper side.





K755

1. Loosen the screws(x2) to remove the HDD bracket from the system.



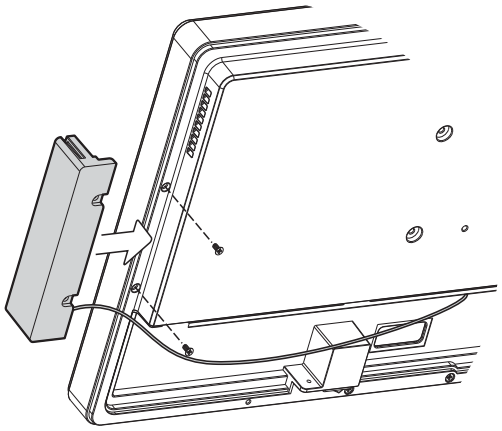
2. The HDD is secured by the bracket, remove the screws(x2) to release the bracket and replace the HDD.

4. Peripheral Installation

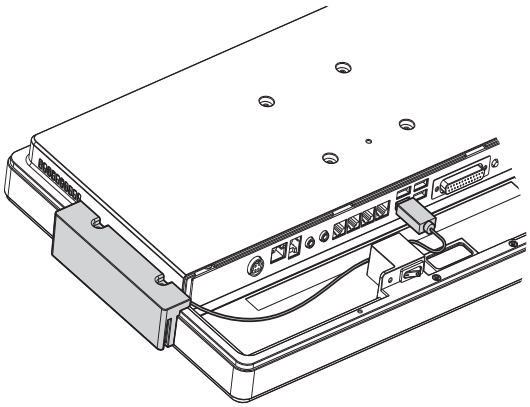
4-1. MSR Installation

To install MSR, please open the cable cover firstly as steps described in chapter 3-1-1.

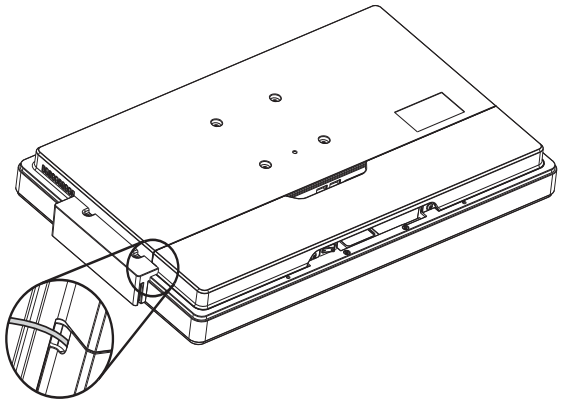
1. Insert MSR module in place and fasten the screws (x2) on the back to secure the module.



2. Connect MSR cable to the connector on system side.



2. Close the cable cover and fasten screws (x2). Make sure the MSR cable is threaded through the MSR cable hole on the system.

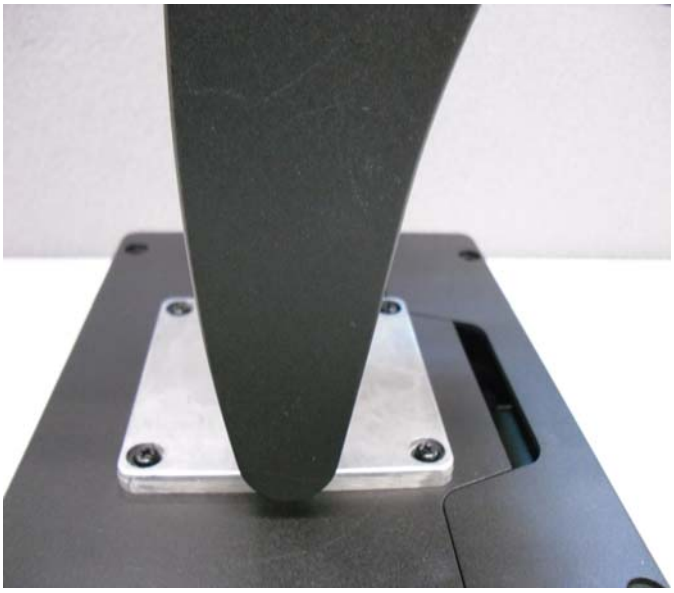


4-2. Stand Installation

1. Place the system face down. Make sure not to scrath the screen.

2. Attach the stand to the back of the system.

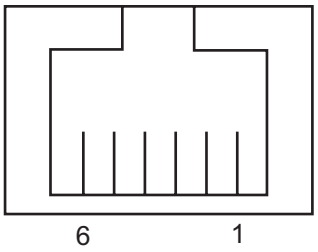
3. Fasten the screws(x4) to secure the stand.



4-3. Cash Drawer Installation

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

Cash Drawer Pin Assignment



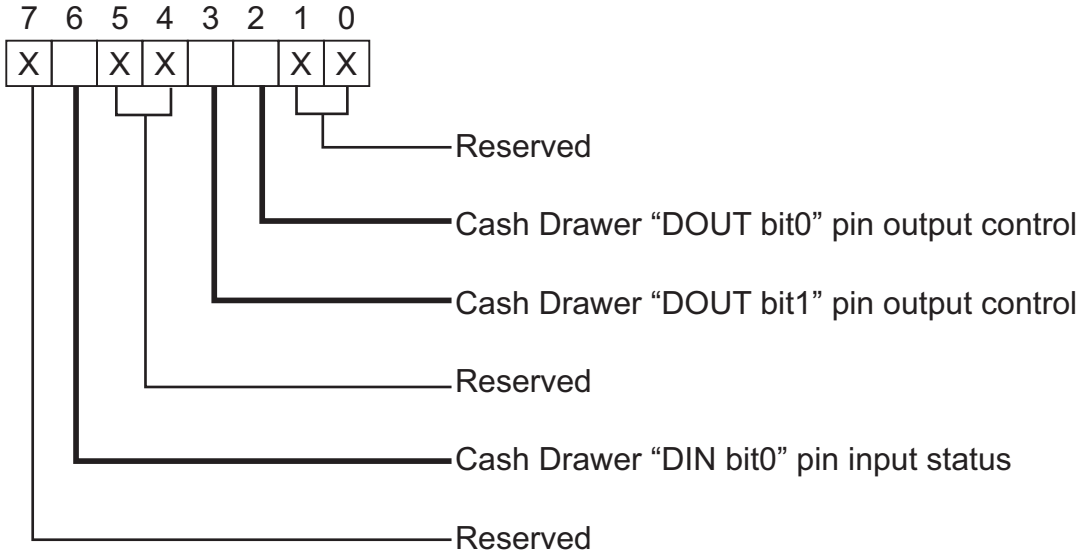
Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V / 19V
5	DOUT bit1
6	GND

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
► Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by “DOUT bit0” pin control. ► Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.	

Command	Cash Drawer
I 48C	Check status
► The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist. ► The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.	

5. Specification

Model Name	K757	K758
Mainboard	**C48**	
CPU	Intel Pineview dual core D525 1.8G	
Chipset	Intel ICH8M	
System Memory	2 x DDR3 SO-DIMM slot, up to 4GB	
Graphic Memory	Intel GMA 3150 share system memory up to 256MB	
LCD/Touch Panel		
LCD Size	15.6" LED LCD	18.5" LED LCD
Brightness	250 nits	
Maximal Resolution	1366 x 768	
Touch Screen Type	Ture flat resistive touch / True flat projected capacitive touch	
Storage		
HDD	2.5" Slim HDD bay, SATA HDD	
Peripherals		
Web Cam (Build-in)	2M Web Cam	
WiFi (Optional)	802.11 b/g/n WLAN card	
MSR-right side(Optional)	3 Track(USB)	
Expansion		
Mini PCI-E Socket	1	
External I/O Ports		
USB 2.0	4 x USB Type A	
Serial COM	4 (RJ45 type, COM1/COM2 standard COM, COM3/COM4 with +5V/+12V power selection)	
Parallel	1 x D-sub 25F	
LAN (10/100/1000)	1 x RJ-45	
2nd VGA	1 x DB 15F	
Cash Drawer	1 x RJ-11 (12V or 24V)	
Audio Jack	1 x Mic-in, 1 x Line-out	
DC Jack	1 x Latch Type (4 pin)	
e-SATA	Blind Hole	
Power Button	1	
Thermal Solution		
Thermal Solution	Fanless	
Audio		
Speaker	2 x 2W	
Power		
Power Adapter	DC 19V / 90W	

Environment		
EMC & Safety	FCC Class A, CE, LVD	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)	
Operating Humidity	5% - 95% RH non-condensing	
Storage Humidity	5% - 95% RH non-condensing	
Dust & Water Proof	IP 54 (front panel)	
Dimensions (W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm
Weight (N.W./G.W.)	4.5kg / 5.5kg	6.8kg / 7.8kg
Mounting	75mm x 75mm Standard VESA / Panel Mount	
OS Support	Windows XP Pro, Linux , POS Ready 2009,Windows Vista ,Windows 7	

* This specification is subject to change without prior notice.

Model Name	K757	K758	K759
Mainboard	**C68**		
CPU	Intel Sandy Bridge CPU, LGA 1155-pin, 32nm i5-2390T 2.7G, L2 6M, 65W i3-2120 3.3G, L2 3M, 65W Pentium G850 2.9G, L2 3M, 65W Pentium G620T 2.2G, L2 3M, 65W Celeron G540 2.5G, L2 2M, 65W		
Chipset	Intel Q67 PCH (Processor Controller Hub, AMT supported_highend)		
System Memory	1 x Long DIMM socket up to 8GB DDR3 1066/1333 Mhz, standard 1GB		
LCD/Touch Panel			
LCD Size	15.6" LED LCD	18.5" LED LCD	21.5" LED LCD
Brightness	250 nits		
Maximal Resolution	1366 x 768		1920 x 1080
Touch Screen Type	Ture flate resistive touch / True flate projected capacitive touch		
Storage			
HDD	2.5" Slim HDD bay, SATA HDD		
Peripherals			
Web Cam (Build-in)	2M Web Cam		
MSR-right side(Optional)	3 Track(USB)		
WiFi (Optional)	802.11 b/g/n WLAN card		
Expansion			
Mini PCI-E Socket	1		
External I/O Ports			
USB Port	4 x USB Type A		
Serial / COM	4 (RJ45 type, COM1/COM2 standard COM, COM3/COM4 with +5V/+12V by BIOS setting)		
Parallel	1 x D-sub 25F		
LAN (10/100/1000)	1 x RJ-45		
2nd LAN (10/100/1000)	1 x RJ-45		
2nd VGA	1 x DB 15F		
Cash Drawer	1 x RJ-11 (12V or 24V)		
Audio Jack	1 x Mic-in, 1 x Line-out		
DC Jack	1 x 2pin CN		
e-SATA	Blind Hole		
Power Button	1		
Thermal Solution			
Thermal Solution	1 x Fan	2 x Fan	
Audio			
Speaker	2 x 2W		
Power			
Power Adapter	DC 19V / 120W		

Environment			
EMC & Safety	FCC Class A, CE, LVD		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)		
Operating Humidity	5% - 95% RH non-condensing		
Storage Humidity	5% - 95% RH non-condensing		
Dust & Water Proof	IP 54 (front panel)		
Dimensions (W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm	536 x 328 x 48 mm
Weight (N.W./G.W.)	4.5kg / 5.5kg	6.8kg / 7.8kg	7.4kg / 8.4kg
Mounting	75mm x 75mm Standard VESA / Panel Mount		
OS Support	Windows XP Pro, Linux , POS Ready 2009,Windows Vista ,Windows 7		

* This specification is subject to change without prior notice.

Model Name	**K755**
Mainboard	**C56**
CPU	Intel CedarView D2550 processor 1.86GHz 1MB Cache
Chipset	Intel NM10
System Memory	1 x DDR3 SO-DIMM socket up to 4G, FSB 1066MHz
Graphic Memory	Intel GMA 3650 (Gfx frequency up to 640MHz), DX9
LCD/Touch Panel	
LCD Size	10.1" LED LCD
Brightness	250 nits
Maximal Resolution	1024 x 600
Touch Screen Type	Ture flat resistive touch
Storage	
HDD	1 x slim HDD bay (SATA)
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)
Peripherals	
Web Cam (Build-in)	2M Web Cam
WiFi (Optional)	802.11 b/g/n WLAN card
MSR-right side(Optional)	3 Track(USB)
Device Box(Optional)	Smart IC card Reader / Scanner / Function Key Pad / Line Out /Mic In
Expansion	
Mini PCI-E Socket	1
External I/O Ports	
USB 2.0	4 x USB Type A (2 with special cables)
Serial COM	4 (RJ45 type, COM1 w/o power, COM2/COM3/COM4 powered COM with power enable /disable by BIOS setting, COM2 is 0V/5V; COM3 is 0V/5V, COM4 is 0V/12V, default BIOS setting 0V)
Parallel	NA
LAN (10/100/1000)	1 x RJ-45
2nd LAN (10/100/1000)	NA
2nd VGA	1 (with optional special cable)
Cash Drawer	1 x RJ-11 (12V or 19V)
Audio Jack	NA
DC Jack	1 x 2pin CN
e-SATA	NA
Power Button	1
Thermal Solution	
Thermal Solution	Fanless
Audio	
Speaker	2 x 2W
Power	
Power Adapter	DC 18.5V / 65W

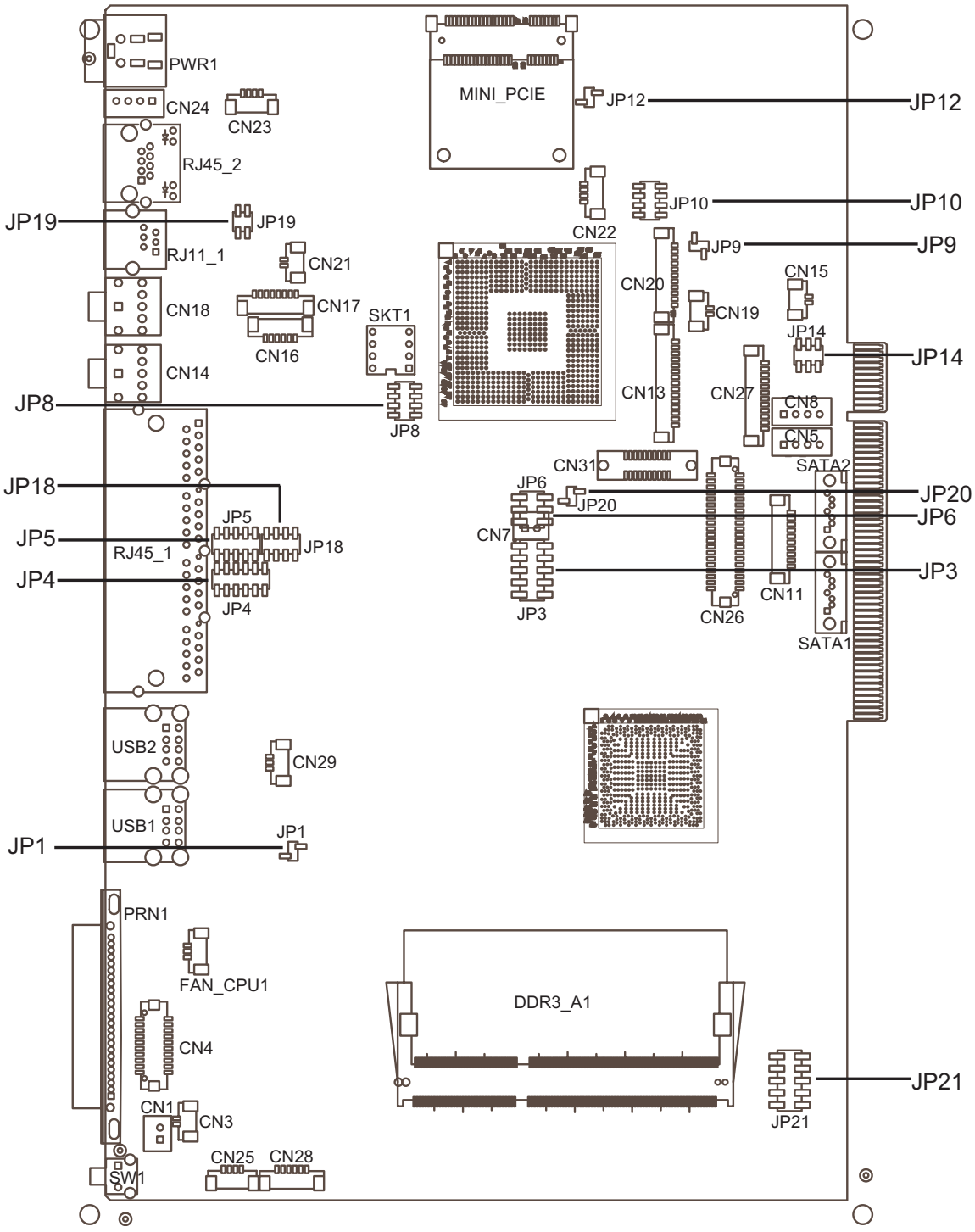
Environment	
EMC & Safety	FCC /CE Class A/ LVD / EN 60601-1-2/ UL
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Storage Temperature	-20°C ~ 55°C (-4°F ~ 140°F)
Operating Humidity	20% ~ 85% RH non condensing
Storage Humidity	20% ~ 85% RH non condensing
Dust & Water Proof	IP 54 (front panel)
Dimensions (W x D x H)	263 x 170 x 38 mm
Weight (N.W./G.W.)	1.5kg / 2.5kg
Mounting	75mm x 75mm Standard VESA / Panel Mount
OS Support	Windows® XP Professional, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, Windows 7 (32 bit for C56), Linux

* This specification is subject to change without prior notice.

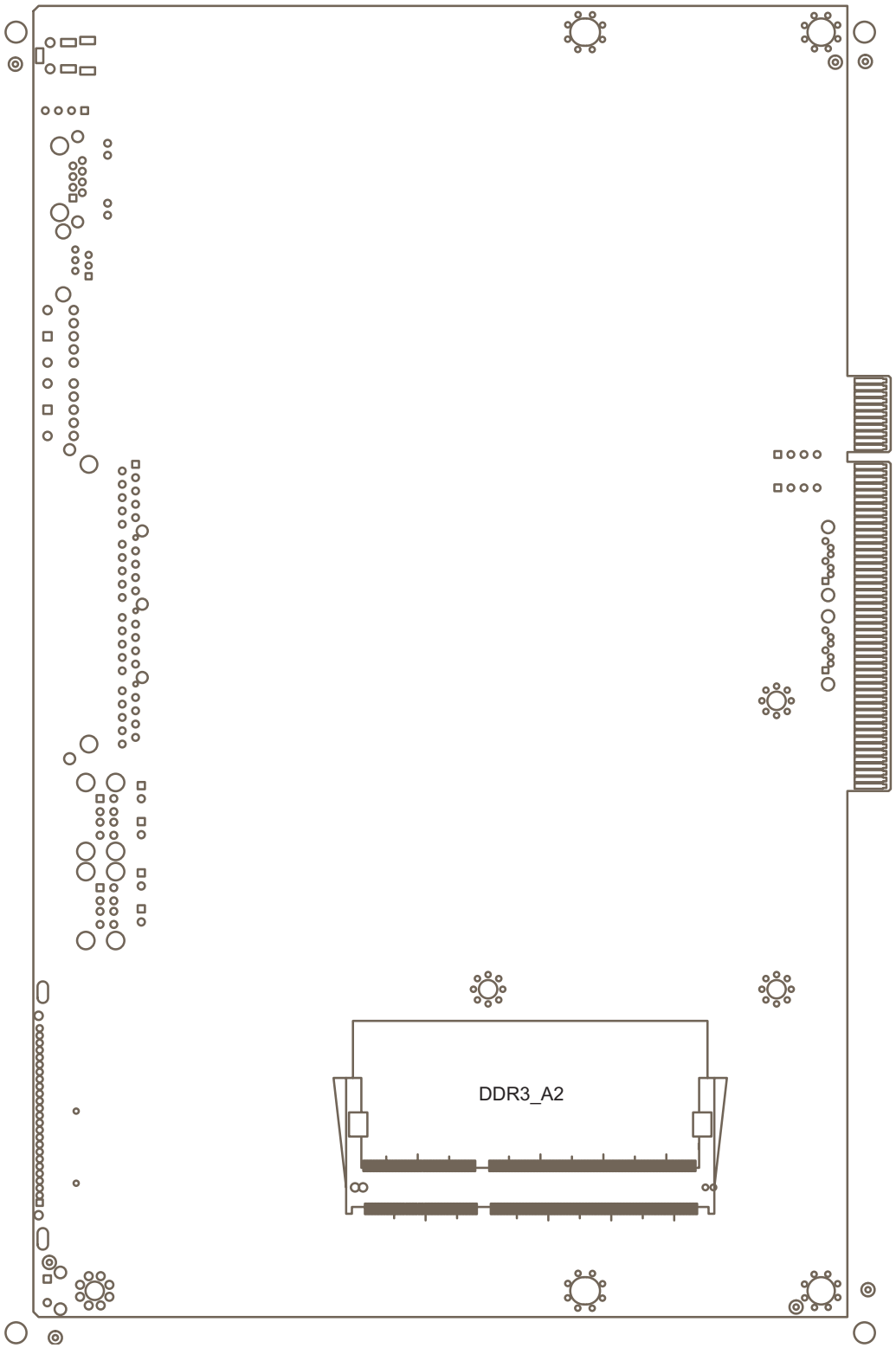
6. Jumper Setting

6-1. C48 Motherboard

6-1-1. Motherboard Layout



C48 V2.1 TOP LAYER



C48 V2.1 BOTTOM LAYER

6-1-2. Connectors & Functions

Connector	Function
CN1	Power Button Connector
CN3	Printer Port Reset
CN4	Printer Port
CN5/8	HDD Power
CN11	COM5 For Touch
CN13	Card Reader Connector
CN14	Line out
CN15	HDD LED
CN16	Speaker & MIC
CN18	MIC IN
CN20/JP10	System Indicator
CN22	USB Port
CN23	PS2 KEYBOARD
CN26	LVDS
CN27	Inverter Connector
CN29	System Fan
DDR3_A1	DDR3 SO-DIMM1
DDR3_A2	DDR3 SO-DIMM2
PRN1	Parallel Port
PWR1	+19V DC Jack
RJ11_1	Cash Drawer Connector
RJ45_1	COM1, COM2, COM3, COM4
RJ45_2	LAN
SATA1	SATA Connector
SATA2	SATA Connector
USB1	USB1, USB2
USB2	USB3, USB4
SW1	Power Button
JP1	CMOS Operation Mode
JP3/6	VGA Port
JP4/5	COM2 RS232/485/422 Setting
JP8	LCD ID Setting
JP9	Power Mode Setting
JP12	System Reset
JP14	Inverter Selection
JP18	COM3/4 Power Setting
JP19	Cash Drawer Power Setting

6-1-3. Jumper & BIOS/Utility Setting

COM2 RS232/485/422 Setting

Function	JP5	JP4
▲RS232	1 3 5 7 9 2 4 6 8 10	1 3 5 7 9 11 2 4 6 8 10 12
RS485	1 3 5 7 9 2 4 6 8 10	1 3 5 7 9 11 2 4 6 8 10 12
RS422	1 3 5 7 9 2 4 6 8 10	1 3 5 7 9 11 2 4 6 8 10 12

COM3 & COM4 Power Setting

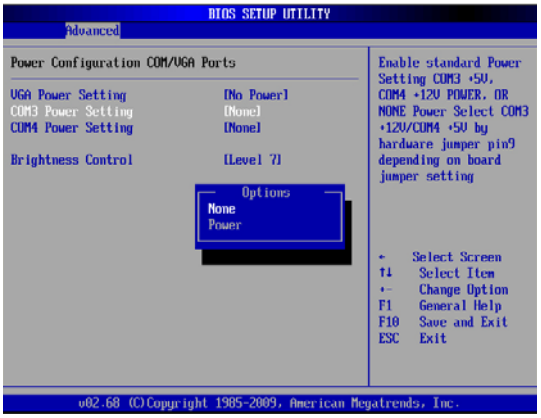
COM3 and COM4 can be set to provide power to your serial device.
The voltage can be set to +5V or 12V by setting jumper JP18 on the mother-board. When enabled, the power is available on pin 10 of the RJ45 serial con-nector. If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector.

By default, the power option is disabled in the BIOS.

BIOS/Utility setup

1. Press <DEL> key to enter BIOS SETUP UTILITY when system boot up.
2. Find tab "Advanced".
3. Select "Power Configuration COM/VGA Ports" and press <Enter> to go to sub screen.

4. To switch on the power, select "Power". Please save the change before exiting BIOS so as to go for physical jumper adjustment.



COM3/COM4 Jumper setup

Function		JP18
COM3	▲+5V	1 3 5 7 2 4 6 8
	+12V	1 3 5 7 2 4 6 8
COM4	+5V	1 3 5 7 2 4 6 8
	▲+12V	1 3 5 7 2 4 6 8

Function	JP1
▲CMOS Normal	1 2
CMOS Reset	1 2

▲ = Manufacturer Default Setting

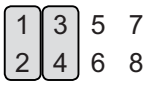
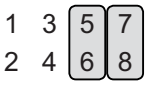
Cash Drawer Power Setting

Function	JP19
+19V	
▲+12V	

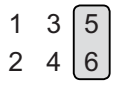
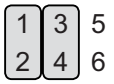
Power Mode Setting

Function	JP9
▲ATX Power	
AT Power	

System Indicator

Function	JP10
▲Disable	
Enable	

Inverter Selection

Function	JP14
▲ CCFL	
LED	

▲ = Manufacturer Default Setting

CMOS Operation Mode

CMOS Reset

To clear the CMOS,

1. Remove the power cable from the system.
2. Open the system, and set the ‘CMOS Operation jumper’ from ‘CMOS Normal’ to ‘CMOS Reset’. (refer to the jumper shown below)
3. Connect the power cable to the system, and **power on the system**:
   in ATX mode: press the power button and it will fail power on
   in AT mode: turn on system power
4. Remove the power cable from the system.
5. Return the "CMOS Operation mode" jumper setting from "CMOS Reset" to "CMOS normal".
6. Connect the power cable and power on the system.

Function	JP1
▲CMOS Normal	
CMOS Reset	

▲ = Manufacturer Default Setting

LCD ID Setting

Several configurations are applied to different sizes of panel. Please refer to the followings to complete relevant settings.

Resolution	LVDS		Output Interface	JP8
	Bits	Channel		
800 x 600	24	Single	1st: LCD Panel 2nd: VGA Port	1 [3 4] 5 [7 8] 2
1024 x 768	24	Single		1 [3 4] [5 6] [7 8] 2
1366 x 768	24	Single		1 3 [5 6] [7 8] 2 4
800 x 600	18	Single		[1 3] 5 [7 8] [2 4] 6
*800 x 600	18	Single		[1 3] 5 7 [2 4] 6 8
1024 x 768	18	Single		[1 3] [5 7] [2 4] [6 8]
1280 x 1024	24	Dual	1st: VGA Port	[1] 3 5 7 [2] 4 6 8

*__remark__: specialized for Sharp 12.1" LQ121S1LG41/LQ121S1LG42 panel.

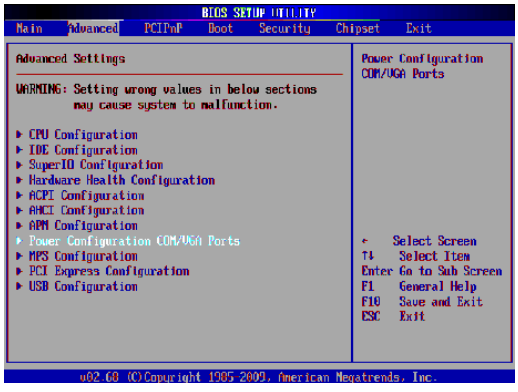
1 2 Jumper open [1 2] Jumper short

2nd VGA Power Setting

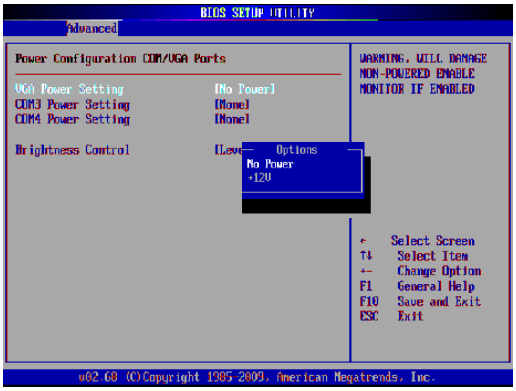
VGA port power must be on through BIOS/Utility for default is "No Power".

BIOS/Utility setup

1. Press <DEL> key to enter BIOS SETUP UTILITY when system boot up.
2. Find tab "Advanced".
3. Select "Power Configuration COM/VGA Ports" and press <Enter> to go to sub screen.



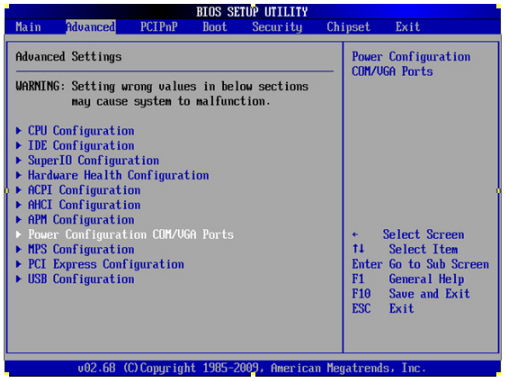
4. To switch on the power, select "+12V". Please save the change before exiting BIOS to avoid data lost.



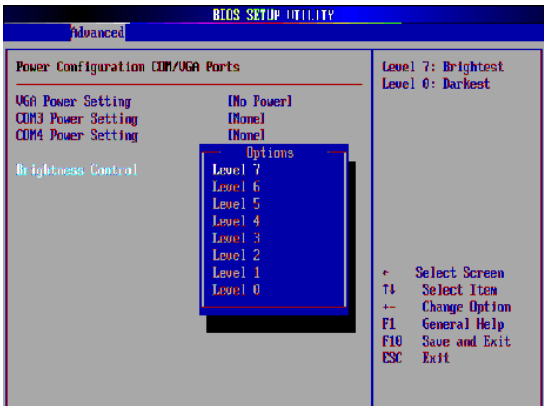
LCD Brightness Control Setting

Please note Brightness Control can only be set by setting jumper JP14 for CCFL on the motherboard C48 V2.1. By default, the inverter is CCFL on the motherboard jumper setting.

1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select Power Configuration COM/VGA Ports and press <Enter> to go to display the available options.

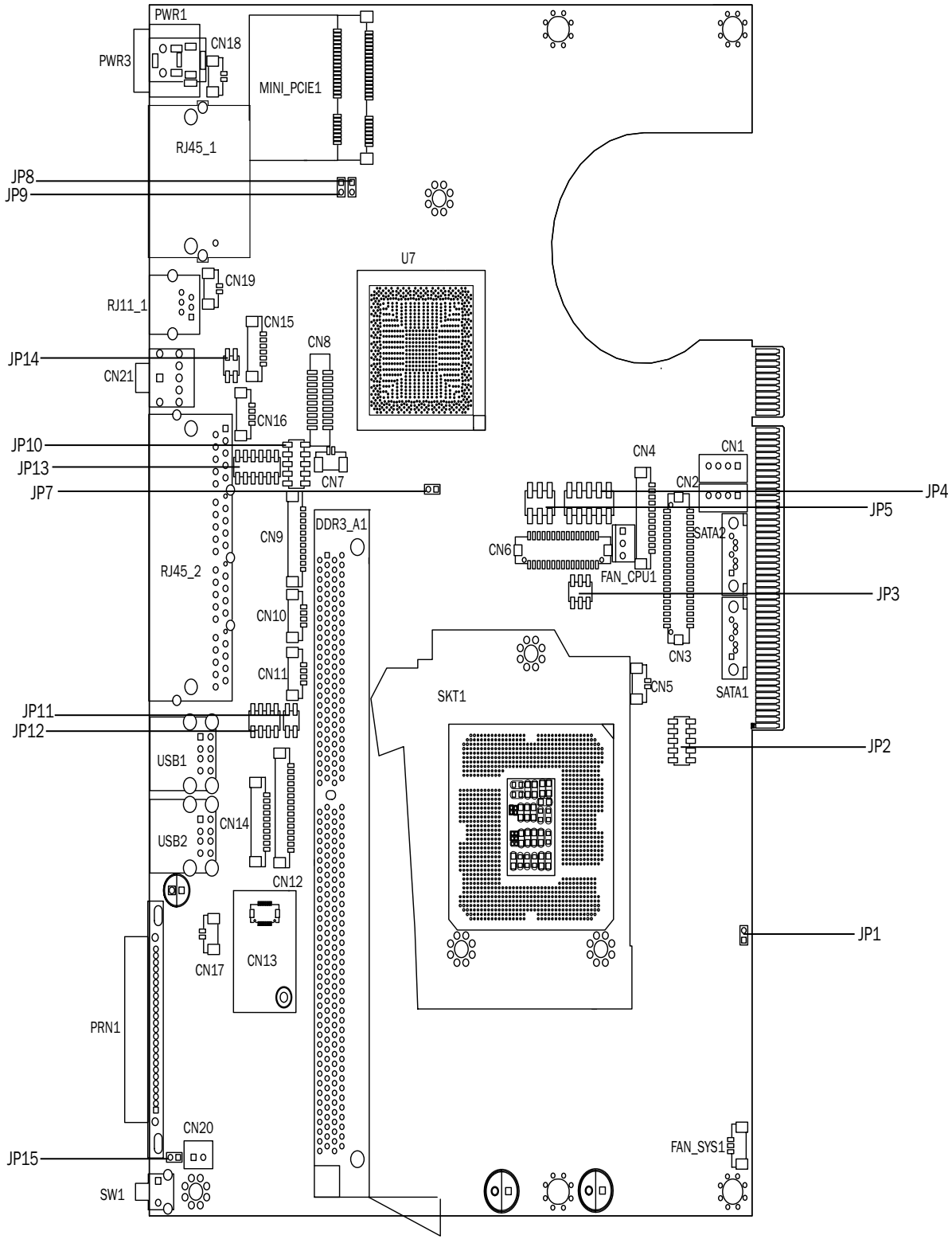


4. To change the brightness, select “Brightness Control” and press <Enter>. Choose the desired brightness level (0~7) press <Enter>. Save the change by pressing F10.
   NOTE: the new brightness will take effect after the system has restarted.



6-2. C68 Motherboard

6-2-1. Motherboard Layout



Version: C68 v1.0

6-2-2. Connectors & Functions

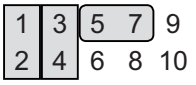
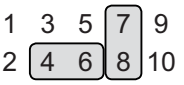
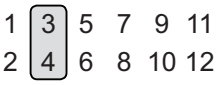
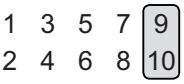
Connector	Function
CN1/2	SATA power Connector
CN3	LVDS Connector
CN4	LVDS INVERTER Connector
CN5	SATA HDD LED Connector
CN6	DVI Connector
CN7	BATTERY Connector
CN9	FT STATUS INTERFACE
CN10/11	USB Port(Internal)
CN12	Card Reader Connector(COM6)
CN13	RF Connector
CN14	COM5 for Touch
CN15	SPEAKER & MIC Connector (Internal)
CN16	PS2 Keyboard Connector
CN17	Power On LED Connector
CN18/CN19	LAN1/2 LED(Internal)
CN20	Power button(Internal)
CN21	Line out JACK
DDR3_A1	DDR3 LONG-DIMM
FAN_CPU1	CPU FAN Connector
FAN_SYS1	System FAN Connector
PRN1	PARALLEL PORT
PWR3	+19V DC JACK
RJ11_1	CASH DRAWER Connector
RJ45_1	LAN1/LAN2 Connector
RJ45_2	COM1/ COM2/ COM3/ COM4
SATA1/2	SATA Connector
USB1	USB4 USB2
USB2	USB3 USB4
JP2	LCD ID Setting
JP3	INVERTER Select
JP4/5	VGA
JP7	CMOS Operation Mode
JP8	ME Update
JP9	H/W Reset
JP10/13	COM2 RS232/485/422 Setting
JP11	USB Touch Power Setting(CN11)
JP12	COM3/COM4 Power Setting
JP14	CASH DRAWER Power Setting
SW1	Power button

6-2-3. Jumper Setting

Power Mode Setting

Function	JP1
▲ATX Power	
AT Power	

COM2 RS232/485/422 Setting

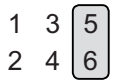
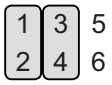
Function	JP10	JP13
▲RS232		
RS485		
RS422		

Cash Drawer Power Setting

Function	JP14
▲+19V	
+12V	

▲ = Manufacturer Default Setting

Inverter Selection

Function	JP3
▲ CCFL	
LED	

ME Update

Function	JP8
▲Lock	
Un-lock	

Hardware Reset

Function	JP9
▲System Normal	
System Reset	

USB Touch Power Setting for CN11 Connector

Function	JP11
▲+5VSB	
+5V	

▲ = Manufacturer Default Setting

CMOS Operation Mode

CMOS Reset

To clear the CMOS,

1. Remove the power cable from the system.
2. Open the system, and set the ‘CMOS Operation jumper’ from ‘CMOS Normal’ to ‘CMOS Reset’. (refer to the jumper shown below)
3. Connect the power cable to the system, and **power on the system**:
   in ATX mode: press the power button and it will fail power on
   in AT mode: turn on system power
4. Remove the power cable from the system.
5. Return the "CMOS Operation mode" jumper setting from "CMOS Reset" to "CMOS normal".
6. Connect the power cable and power on the system.

Function	JP7
▲CMOS Normal	
CMOS Reset	

COM3 & COM4 Power Setting

COM3 and COM4 can be set to provide power to your serial device.
The voltage can be set to +5V or 12V by setting jumper JP18 on the motherboard. When enabled, the power is available on pin 10 of the RJ45 serial connector. If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector.

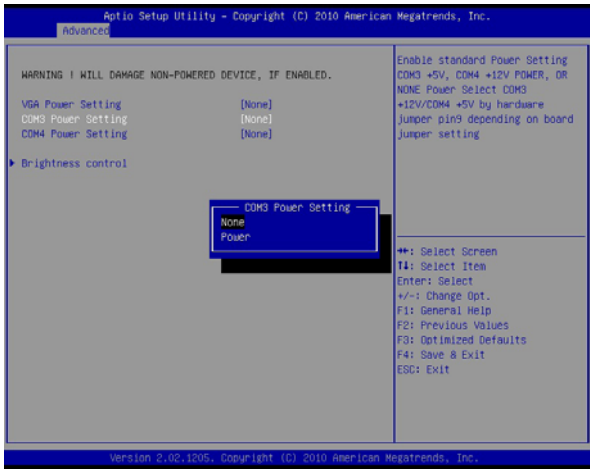
By default, the power option is disabled in the BIOS.

BIOS/Utility setup

1. Press <DEL> key to enter BIOS SETUP UTILITY when system boot up.
2. Find tab "Advanced".
3. Select "Power Configuration COM/VGA Ports" and press <Enter> to go to sub screen.

▲ = Manufacturer Default Setting

4. To switch on the power, select "Power". Please save the change before exiting BIOS so as to go for physical jumper adjustment.



COM3/COM4 Jumper setup

Function		JP12
COM3	▲+5V	1 3 5 7 2 4 6 8
	+12V	1 3 5 7 2 4 6 8
COM4	+5V	1 3 5 7 2 4 6 8
	▲+12V	1 3 5 7 2 4 6 8

LCD ID Setting

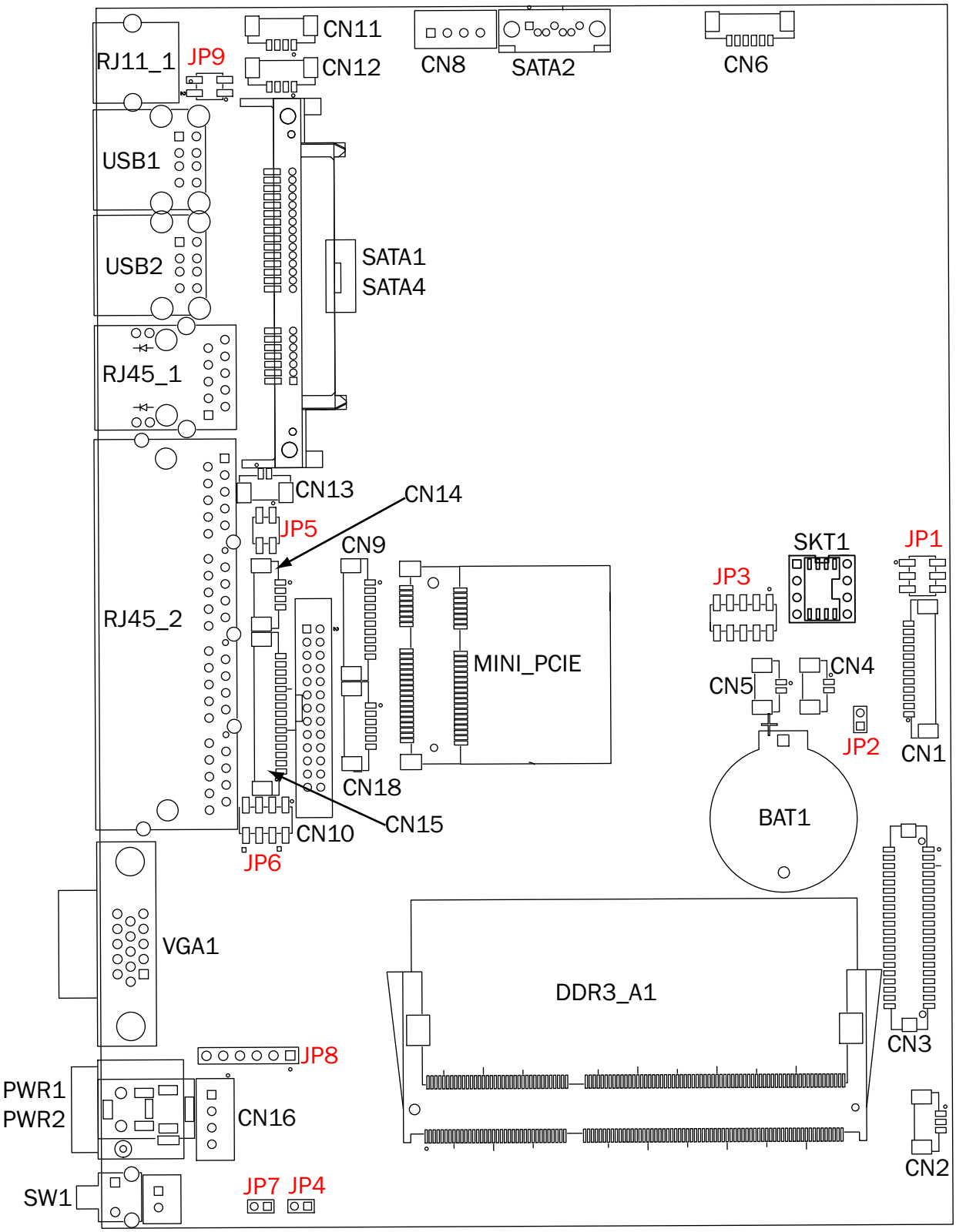
Panel#	Resolution	LVDS		Output Interface	JP2
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	1 [3 4] [5 6] [7 8] 9 2 10
3	800 x 600	24	Single	LVDS Panel	1 3 [5 6] [7 8] 9 2 4 10
5	1024 x 768	18	Single	LVDS Panel	1 [3 4] 5 [7 8] 9 2 6 10
7	1024 x 768	24	Single	LVDS Panel	1 3 5 [7 8] 9 2 4 6 10
9	1280 x 1024	24	Dual	LVDS Panel	1 [3 4] [5 6] 7 9 2 8 10
11	1366 x 768	24	Single	LVDS Panel	1 3 [5 6] 7 9 2 4 8 10
13	1440 x 900	24	Dual	LVDS Panel	1 [3 4] 5 7 9 2 6 8 10
15	1920 x 1020	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
				CRT	1 3 5 7 [9 10] 2 4 6 8

Remark:
Panel ID#12 is specialized for Sharp 12.1" LQ121S1LG41/LQ121S1LG42 panel.

1 2 Jumper open [1 2] Jumper short

6-3. C56 Motherboard

6-3-1. Motherboard Layout



Version: C56 v0.9

6-3-2. Connectors & Functions

Connector	Function
CN1	LVDS Inverter Connector
CN2	System FAN Connector
CN3	LVDS Connector
CN4	Power LED Connector
CN5	SATA LED Connector
CN6	Speaker & MIC Connector
CN8	SATA Power Connector
CN9	COM5(Touch) Connector
CN10	Printer Port Connector
CN11/12	USB Port(Internal)
CN13	LAN LED Connector
CN14	PS2 Keyboard Connector
CN15	Card Reader Connector(COM6)
CN16	+19V DC IN Connector
CN17	Power button(Internal)
CN18	Front I/O Connector(USB/power LED/ Power button)
PWR2/3	+19V DC JACK
RJ11_1	Cash Drawer Connector
RJ45_1	LAN Connector
RJ45_2	COM1/ COM2/ COM3/ COM4
DDR3_A1/A2	DDR3 SO-DIMM
SATA1/2/4	SATA Connector
SKT1	BIOS Connector
USB1	USB6 USB7
USB2	USB4 USB5
VGA1	VGA Connector
SW1	Power Button
JP1	Inverter Select
JP2	CMOS Operation Mode
JP3	LCD ID Setting
JP4	H/W Reset
JP5	COM2 Power Setting
JP6	COM3/COM4 Power Setting
JP7	Auto Button Setting
JP8	Touch Connector
JP9	CASH DRAWER Power Setting

6-3-3. Jumper Setting

Cash Drawer Power Setting

Function	JP9
▲ +19V	1 3 2 4
+12V	1 3 2 4

Inverter Selection

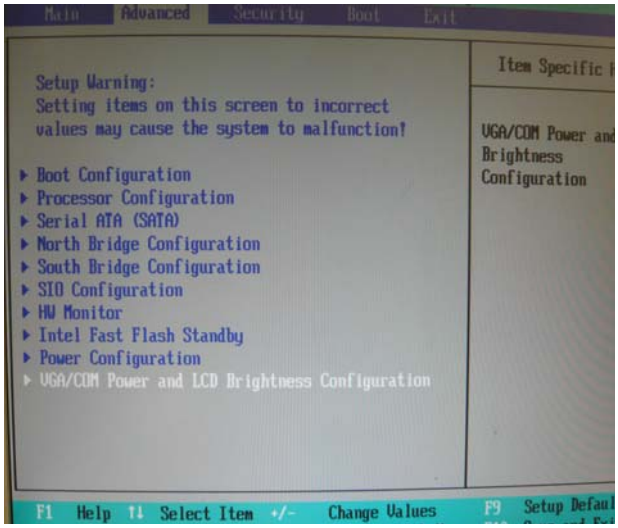
Function	JP1
▲ CCFL	1 3 5 2 4 6
LED	1 3 5 2 4 6

COM2/COM3/COM4 Power Setting

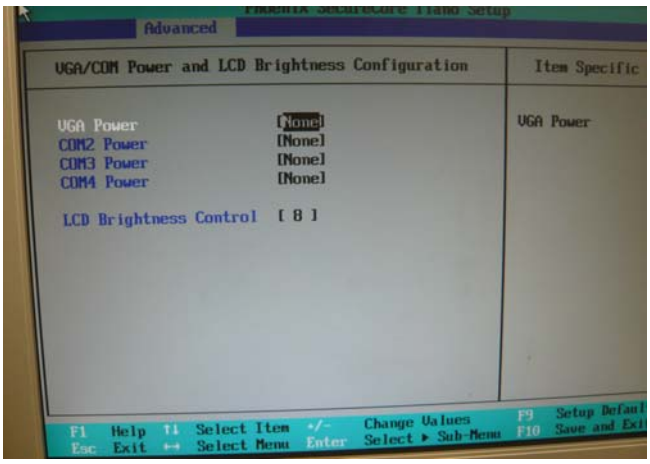
COM2, COM3 and COM4 can be set to provide power to your serial device. The voltage can be set to +5V or +12V by setting jumper JP5 and JP6 on the motherboard. When enabled, the power is available on pin 10 of the RJ45 serial connector. If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is disabled in the BIOS.

Enable COM2/ COM3/COM4 power in BIOS

1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power and LCD Brightness Configuration** Ports and press <Enter> to go to display the available options.



4. To enable the power, select COM2 , COM3 or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



COM2 Power Setting

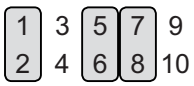
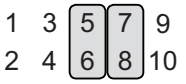
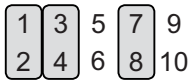
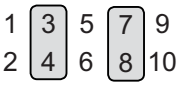
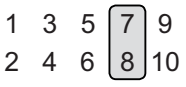
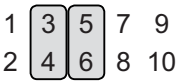
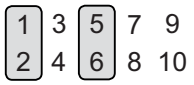
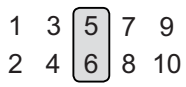
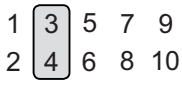
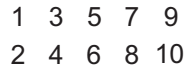
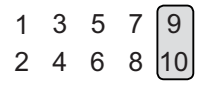
Function	JP5
▲No Power	1 3 2 4
COM2 +5V	[1] 3 [2] 4
COM2 +12V	1 [3] 2 [4]

COM3/COM4 Jumper setup

Function		JP6
COM3	▲+5V	[1] 3 5 7 [2] 4 6 8
	+12V	1 [3] 5 7 2 [4] 6 8
COM4	+5V	1 3 [5] 7 2 4 [6] 8
	▲+12V	1 3 5 [7] 2 4 6 [8]

▲ = Manufacturer Default Setting

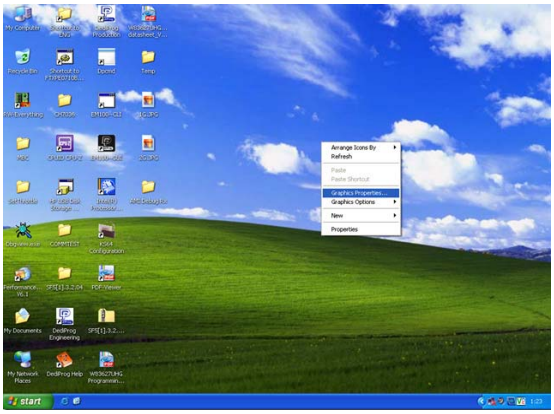
LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	
2	800 x 600	18	Single	LVDS Panel	
3	800 x 600	24	Single	LVDS Panel	
4	1024 x 600	18	Single	LVDS Panel	
5	1024 x 768	18	Single	LVDS Panel	
7	1024 x 768	24	Single	LVDS Panel	
9	1280 x 1024	24	Dual	LVDS Panel	
10	1366 x 768	18	Single	LVDS Panel	
11	1366 x 768	24	Single	LVDS Panel	
13	1440 x 900	24	Dual	LVDS Panel	
15	1920 x 1080	24	Dual	LVDS Panel	
				CRT	

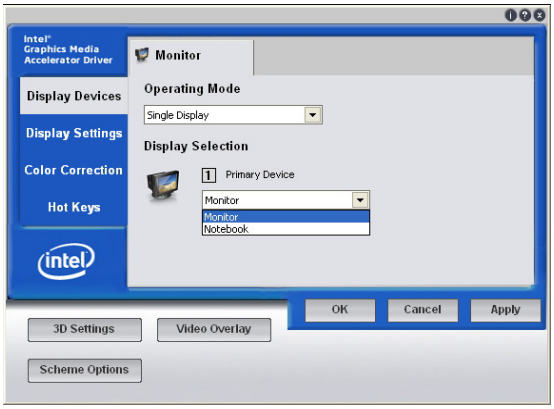
Jumper open Jumper short

Intel Graphics Driver Setting

1. Right click Desktop. Find "Graphics Properties" and enter the manu.



2. Make sure the Display Device is same as follows.



No.	Output Interface	Connector & Jumper	Intel Graphics Driver Device Name
1st	LCD Panel	CN26	Notebook
2nd	VGA Port	JP3/6	Monitor

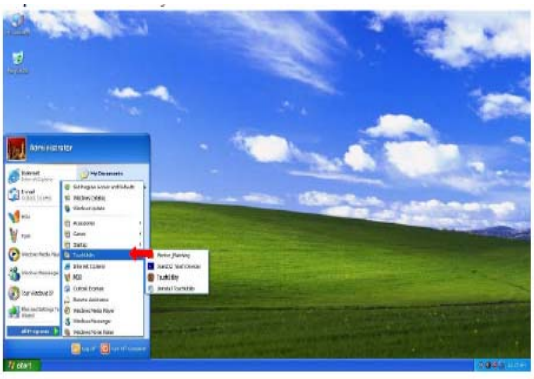
6-4. IdeaCom Touch Driver Installation

If your system is installing with the POS touch driver, please follow the below steps to remove the driver first.

1. Click <Start>

2. Click <All Programs> in the Start Menu

3. Click <TouchUtility>



4. Click <Unistall TouchUtility>

5. Click <Next>

6. Click <Finish> to exit.

7. Click <OK> to reboot your system to complete the uninstallation of POS touch driver.

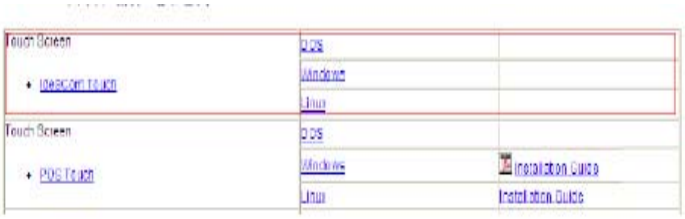
Please follow the below steps to install the IdeaCom touch driver.

Driver Location

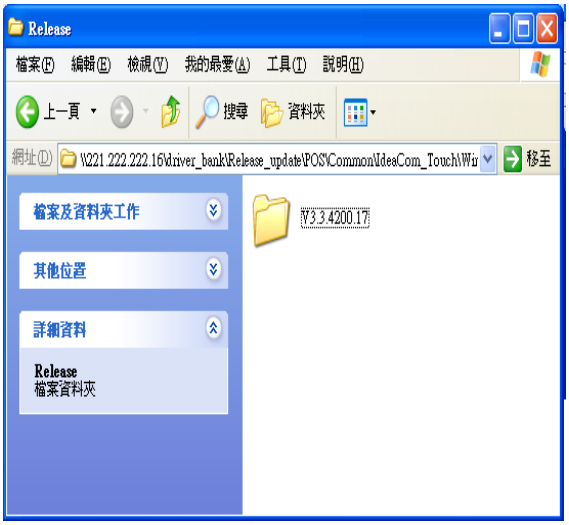
Folder/File	Fille Description
<CD>:\Common\IdeaCom_Touch\ Windows\Release	IdeaCom Touchdriver installation

OS Supported: Windows XP Pro, POS Ready 2009,Windows Vista ,Windows 7(32bit only)

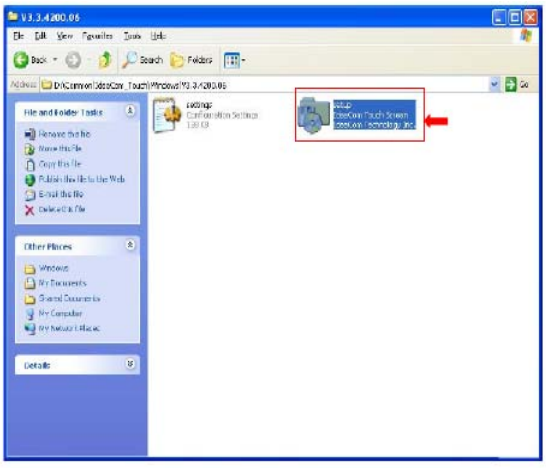
1. Click <Windows> of the IdeaCom Touch section in the driver list menu.



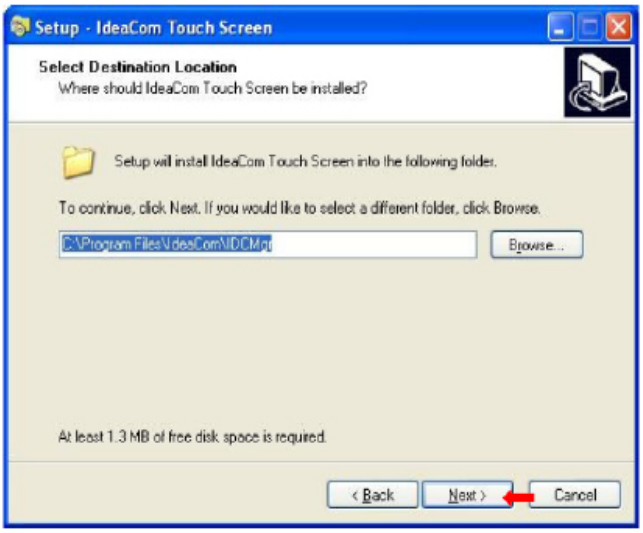
2. Double-click <setup.EXE>



3. Double-click <Setup.exe>



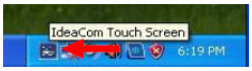
4. Click <Next> to proceed the installation.

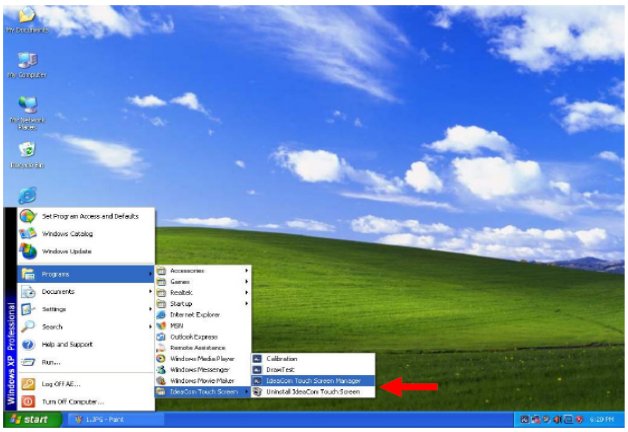


5. Click <Finish> to restart your system.

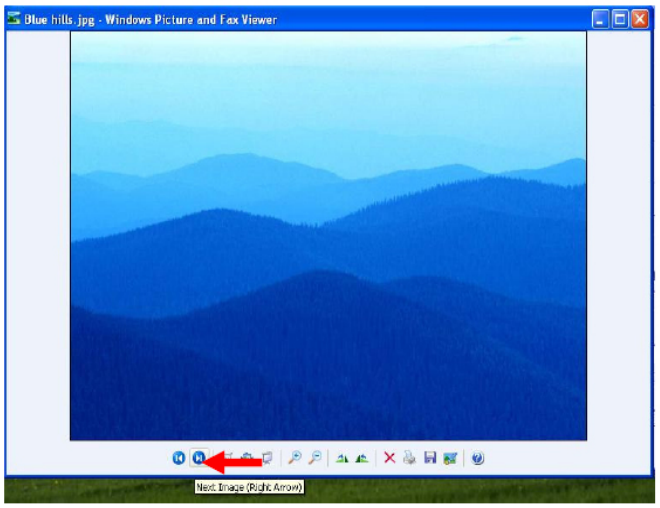
6-4-1. Gesture Setup example for WinXP

1. Open <IdeaCom Touch Screen Manager> utility.
   (You can click IdeaCom Logo or select <Start ⟶ Programs ⟶ IdeaCom Touch Screen ⟶ IdeaCom Touch Screen Manager> open the utility)

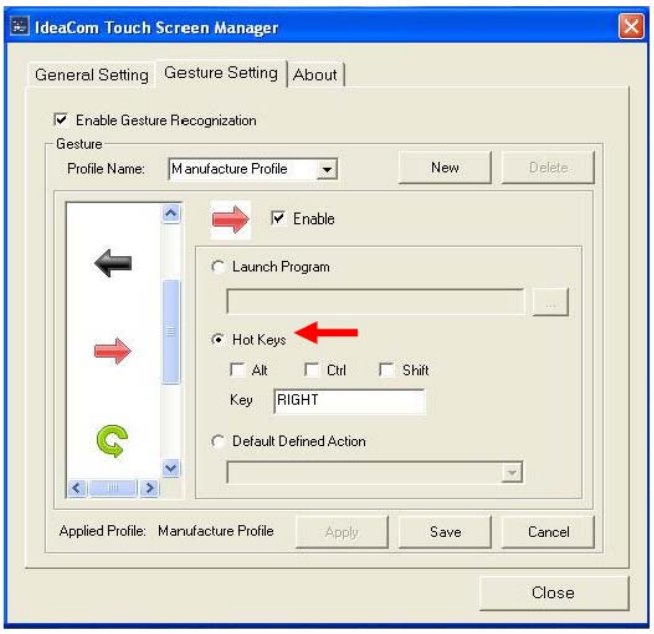




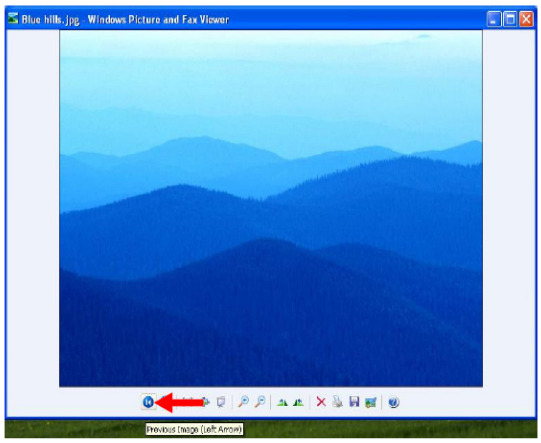
2-1. Open <Windows Picture and Fax Viewer> and check <Next Image> hot key



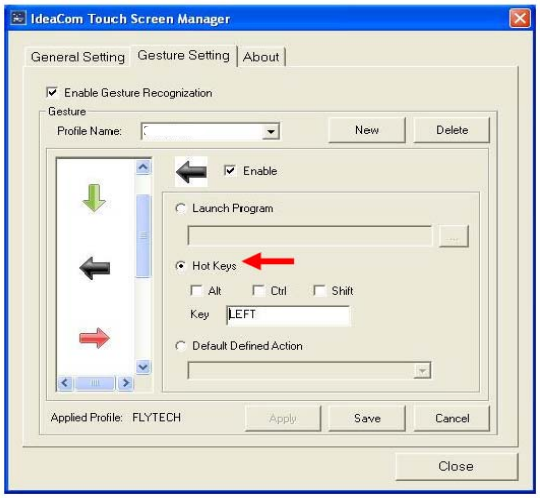
2-2.
a. Select <Gesture Setting>
b. Select <Hot Keys>, then set <Right Arrow> hot key



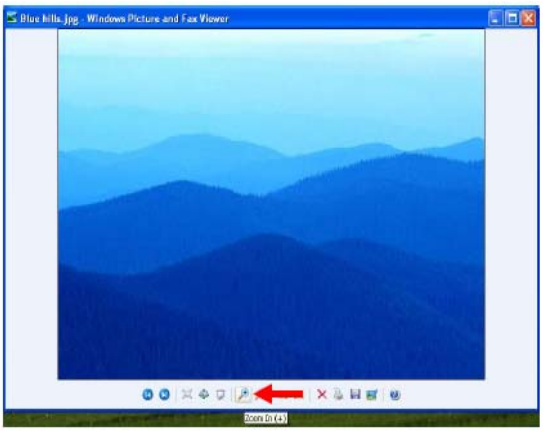
3-1. Check <Previous Image> hot key



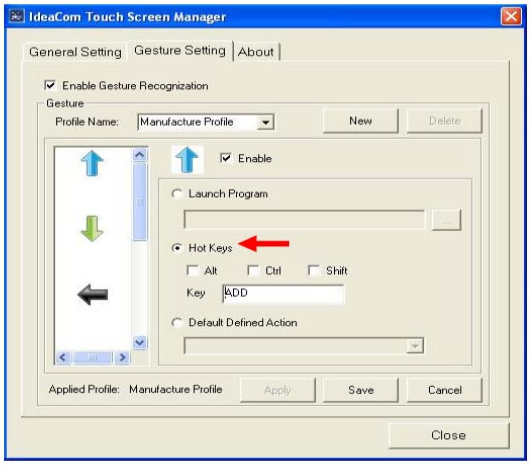
3-2. Select <Hot Keys>, then set <Left Arrow> hot key



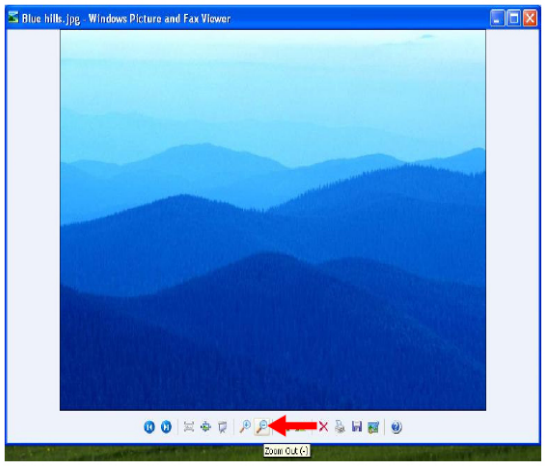
4-1. Check <Zoom In> hot key



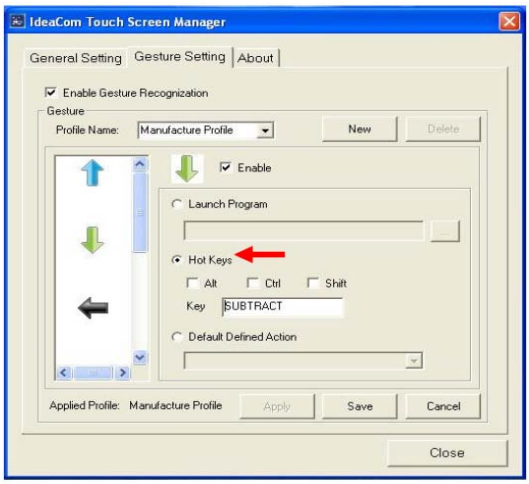
4-2. Select <Hot Keys>, then set <Up Arrow> hot key



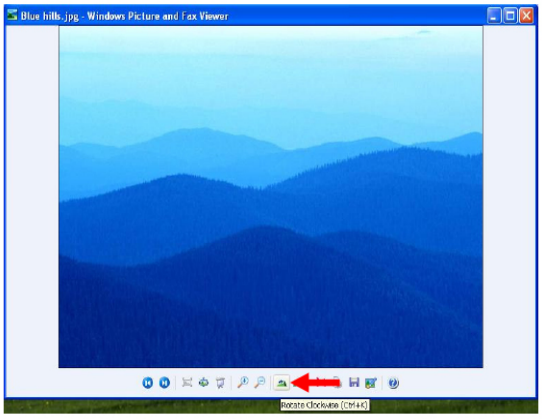
5-1. Check <Zoom Out> hot key



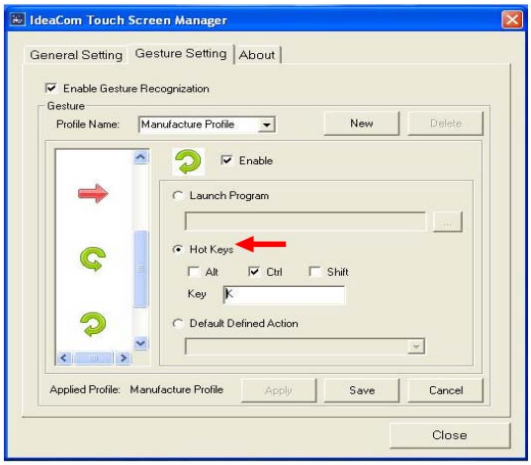
5-2. Select <Hot Keys>, then set <Down Arrow> hot key



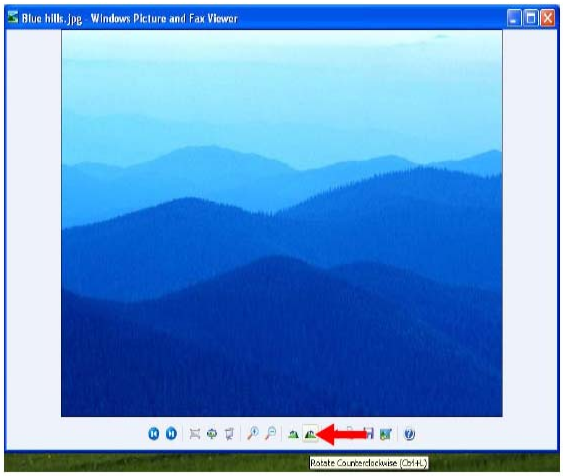
6-1. Check <Rotate Clockwise> hot key



6-2. Select <Hot Keys>, then set <Rotate Clockwise> hot key



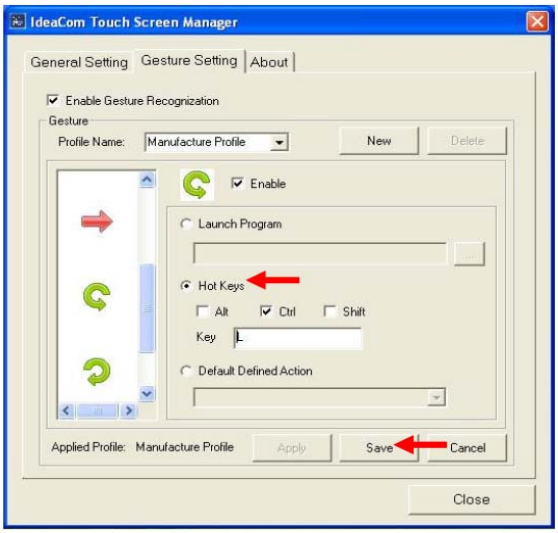
7-1. Check <Rotate Counterclockwise> hot key



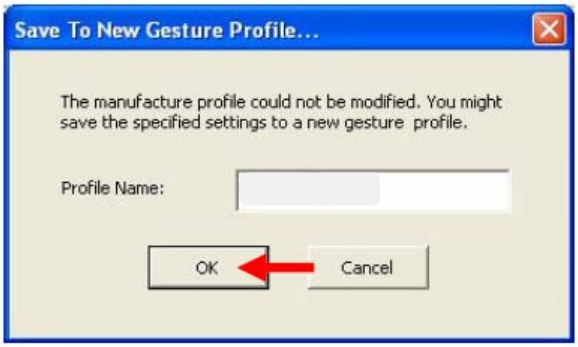
7-2.

a. Select <Hot Keys>, then set <Rotate Counterclockwise> hot key

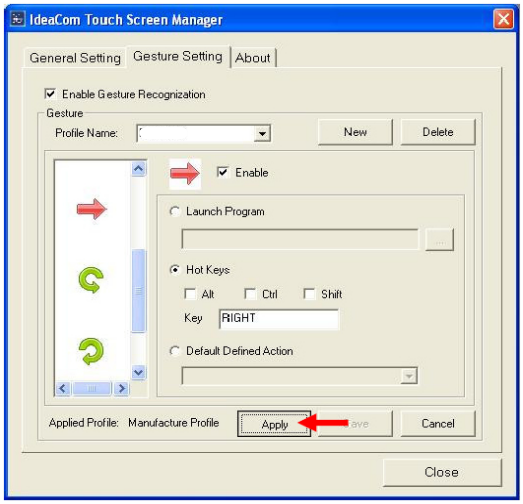
b. Click <Save>



8. Key in <Profile Name> to save, then click <OK>

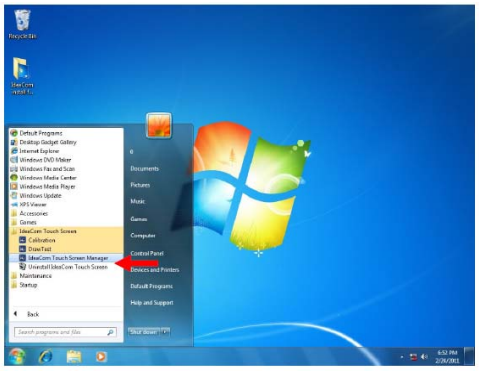


9. Select <Apply> and clicck. Finally click <Yes> to save the setting



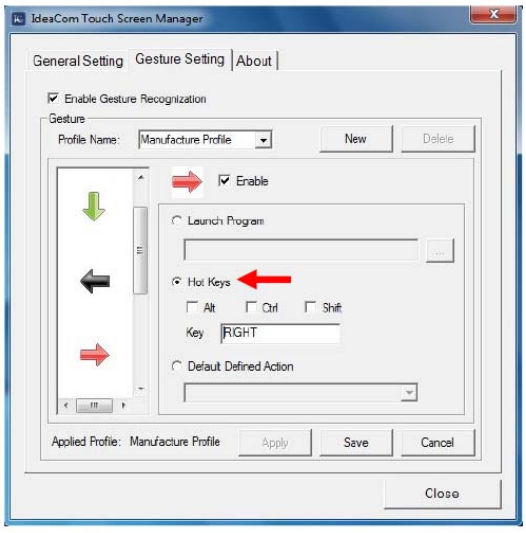
6-4.2. Gesture Setup example for Win7

1. Open <IdeaCom Touch Screen Manager> utility.
   (You can click IdeaCom Logo or select <Start ⟶ All Programs ⟶ IdeaCom Touch Screen ⟶ IdeaCom Touch Screen Manager> open the utility)

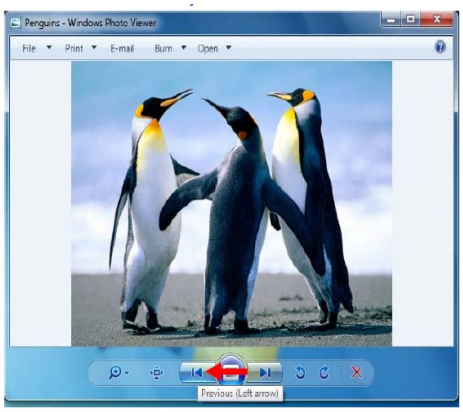


2-1. Open <Windows Photo Viewer and check <Next > hot key

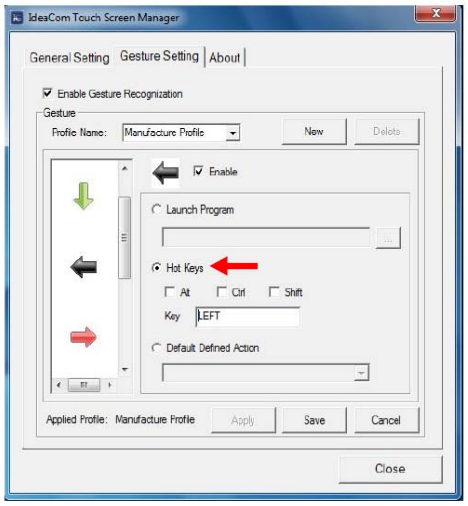
2-2.
a. Select <Gesture Setting>
b. Select <Hot Keys>, then set <Right Arrow> hot key



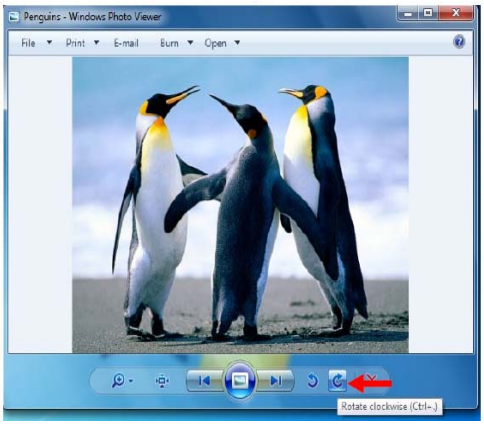
3-1. Check <Previous> hot key



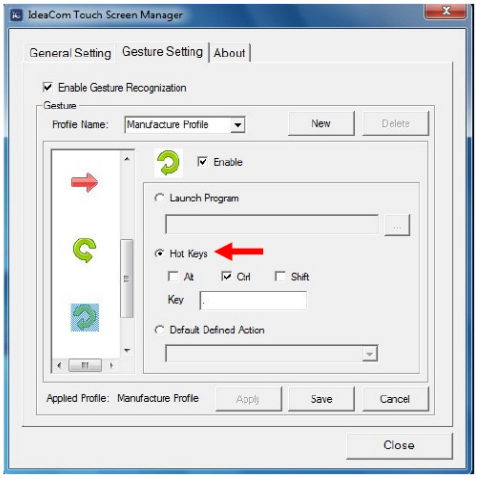
3-2. Select <Hot Keys>, then set <Left Arrow> hot key



4-1. Check <Rotate Clockwise> hot key

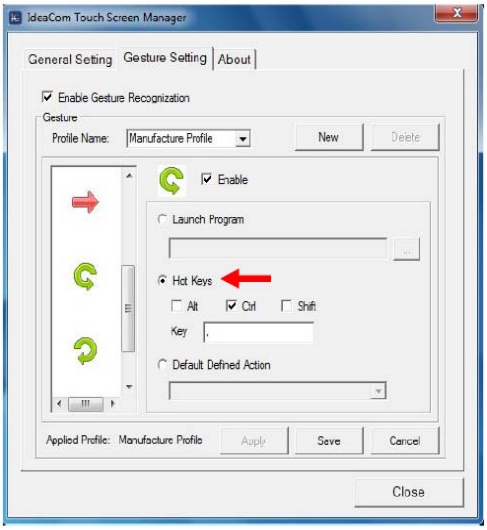


4-2. Select <Hot Keys>, then set <Rotate Clockwise> hot key

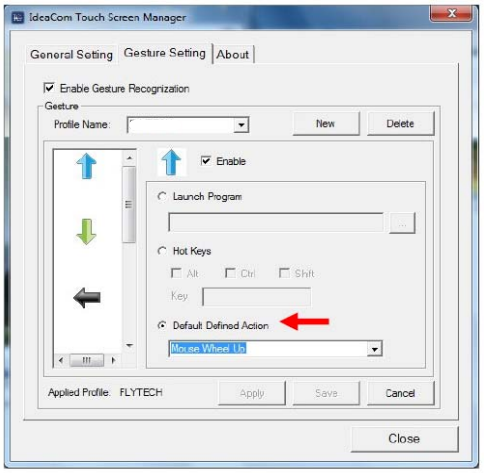


5-1. Check <Rotate Counterclockwise> hot key

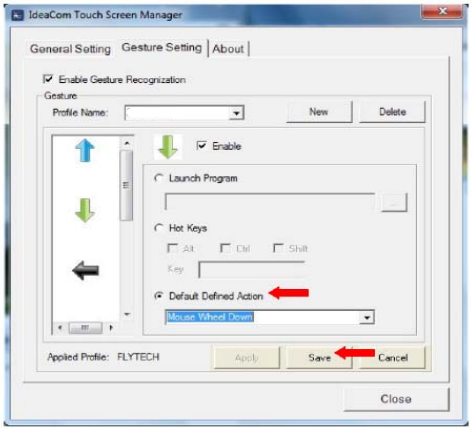
5-2. Select <Hot Keys>, then set <Rotate Counterclockwise> hot key



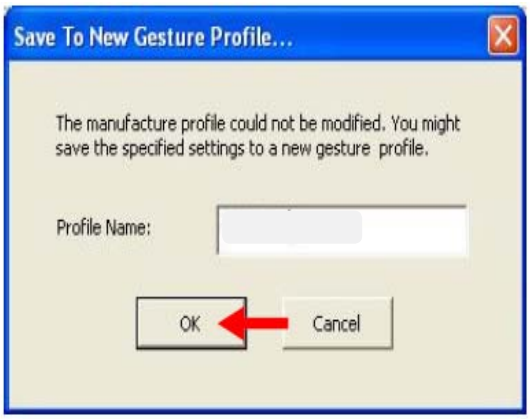
6. Select <Default Defined Action>, then set <Up Arrow> action for zoom in



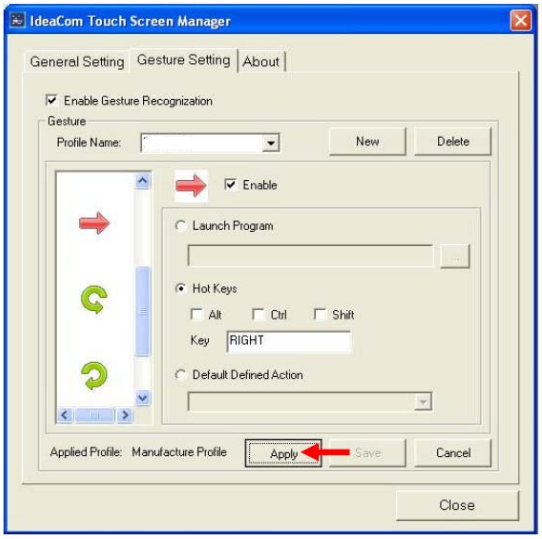
7. Select <Default Defined Action>, then set <Down Arrow> action for zoom out. Click<Save>.



8. Key in <Profile Name> to save, then click <OK>



9. Select <Apply> and clicck. Finally click <Yes> to save the setting



Appendix: Drivers Installation

The shipping package includes a Driver CD in which you can find every individual driver and utility that enables you to install the drivers on the system.
Please insert the Driver CD into the drive and double click on the “index.htm” to select the models. You can refer to the drivers installation guide for each driver in the “Driver/Manual List”.