

USER MANUAL

VERSION 1.4 June 2017

Metal Panel PC Hardware System



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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.

Sécurité

INSTRUCTIONS IMPORTANTES RELATIVES À LA SECURITE

1. Pour débrancher la machine de l'alimentation électrique, éteignez l'interrupteur d'alimentation et retirez le cordon d'alimentation de la prise murale. La prise murale doit être facilement accessible et à proximité de la machine.
2. Lisez attentivement ces instructions. Conservez ces instructions pour une référence future.
3. Suivez tous les avertissements et les instructions indiquées sur le produit.
4. Ne pas utiliser ce produit à proximité de l'eau.
5. Ne pas placer ce produit sur un chariot, un support ou une table. Le produit peut tomber, causant de graves dommages à l'appareil.
6. Les fentes et les ouvertures dans le boîtier, l'arrière ou le fond sont prévues pour la ventilation afin d'assurer un fonctionnement fiable du produit et le protéger de la surchauffe. Ces ouvertures ne doivent pas être obstruées ou couvertes. Les ouvertures ne doivent jamais être bloquées en plaçant l'appareil sur un lit, un canapé, un tapis ou autre surface similaire. Ce produit ne doit jamais être placé : à proximité ou sur un radiateur, sur un registre de chaleur ou dans une installation intégrée à moins qu'une ventilation adéquate soit prévue.
7. Ce produit doit être utilisé avec le type d'alimentation indiqué sur l'étiquette. Si vous n'êtes pas sûr du type d'alimentation disponible, consultez votre revendeur ou représentant local de l'entreprise.
8. Ne laissez rien reposer sur le cordon d'alimentation. Ne placez pas ce produit là où des personnes peuvent marcher sur le cordon.
9. N'introduisez jamais d'objets d'aucune sorte dans ce produit à travers les fentes du coffret car ils pourraient entrer en contact avec des points sous tension dangereux ou court-circuiter des pièces. Ne renversez jamais de liquide d'aucune sorte sur le produit.



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".



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

AVERTISSEMENT SUR LES BATTERIES AU LITHIUM

Il y a un danger d'explosion si la batterie n'est pas remplacée correctement. Remplacez-la uniquement par une batterie identique ou de type équivalent recommandée par le fabricant.les batteries usagées doivent être mises au rebut conformément aux instructions du fabricant.



Avertissement Batterie

Risque d'explosion si la batterie est remplacée par un élément incompatible. Jetez les batteries usagées selon les instructions des dispositions locales .



Avertissement de sécurité

Remarque: Pour répondre à la norme IEC60950-1 alinéa 2.5 (sources d'énergie limitées, LPS) liés la législation, les périphériques doivent être conforme 4.7.3.2 «Matériaux pour enceinte coupe-feu»

4.7.3.2 «Matériaux pour équipements coupe-feu»

Pour les équipements mobiles ayant une masse totale n'excédant pas 18kg :

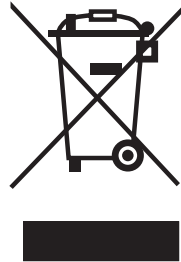
Les matériaux d'un équipement coupe-feu, dans l'épaisseur de paroi retenue la plus significativement mince, doivent être des matériels de CLASSE V-1 ou doivent passer le test de l'article A.2.

Pour équipements mobiles ayant une masse totale supérieure à 18 kg et pour tous les équipements FIXES :

Les matériaux d'un équipement coupe-feu dans l'épaisseur de paroi retenue la plus significativement mince, doivent être des matériels de CLASSE V-1, doivent être de classe Matériel 5VB ou doivent passer le test de l'article A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU 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	<ul style="list-style-type: none">Initial release	March 2013
1.1	<ul style="list-style-type: none">C76 M/B added	November 2013
1.2	<ul style="list-style-type: none">D36 M/B added	May 2015
1.3	<ul style="list-style-type: none">Remove RJ11 port and relevant setting from D36 and D66 MB	December 2015
1.4	<ul style="list-style-type: none">D86U M/B addedC56 M/B removed	June 2017

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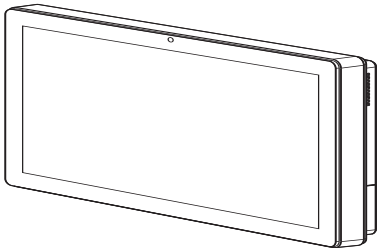






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1. Packing List

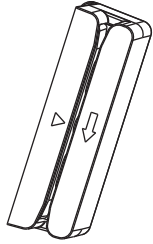
1-1. Standard Items

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

- a. System
- b. Power adapter
- c. Power cord
- d. RJ45-DB9 cable (x2)
- e. USB cable (x2)
- f. Power extended cable
- g. Driver bank

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

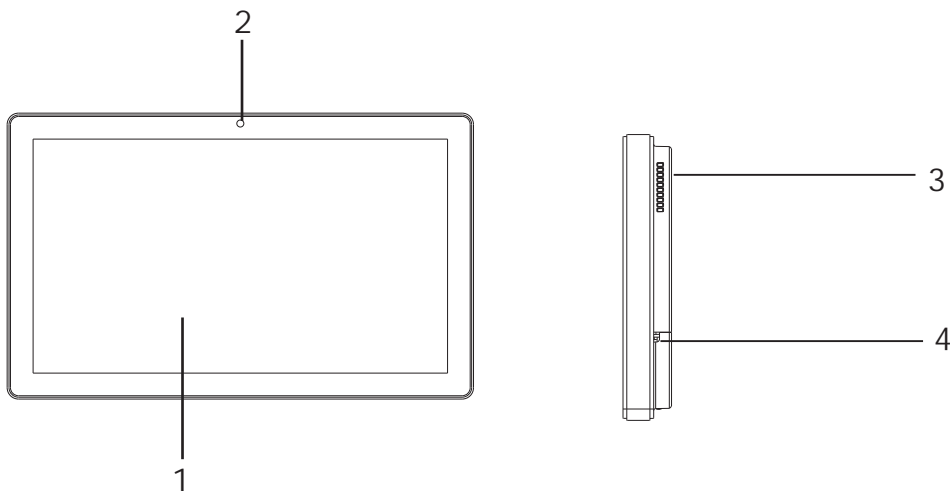
1-2. Optional Items



MSR

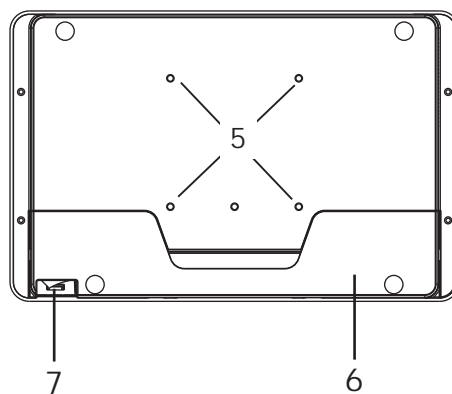
2. System View

2-1. Front & Side View



Item No.	Description
1	Touch screen
2	Built-in web cam
3	Ventilation
4	MSR cable hole

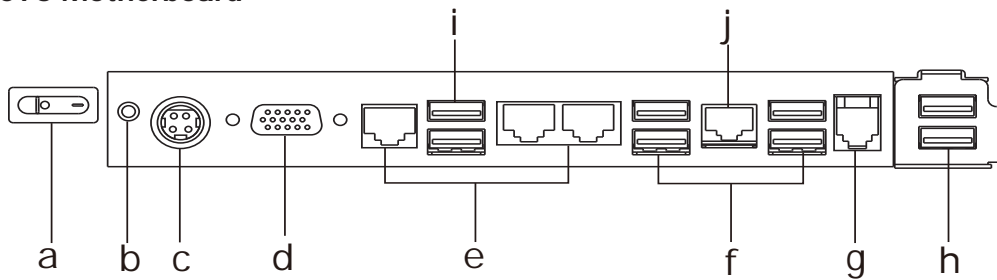
2-2. Rear View



Item No.	Description
5	VESA mounting holes
6	Cable cover
7	Power button

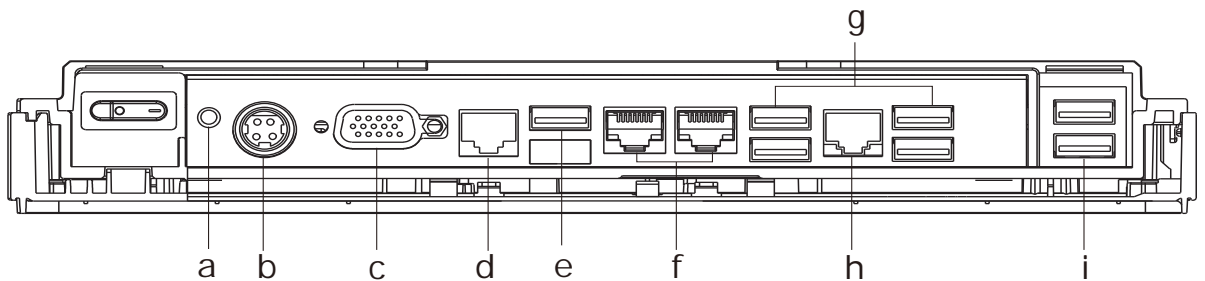
2-3. I/O view

C76 Motherboard



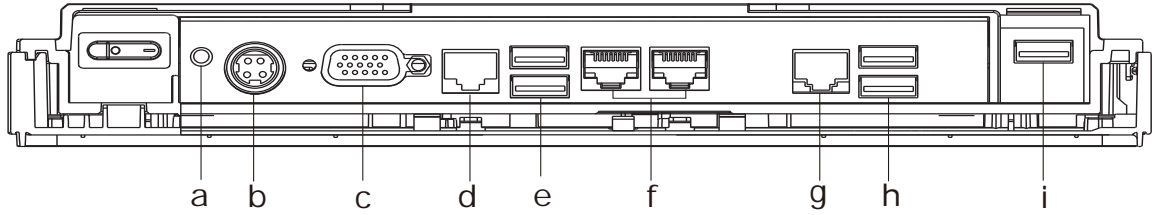
Item No.	Description
a	2 nd power button
b	Power button
c	DC IN
d	VGA
e	COM port 1, 2, 3 (from right to left)
f	USB 2.0 (x4) (two optional USB)
g	Cash drawer
h	USB (x2)
i	USB 3.0 (x2)
j	LAN

D36 Motherboard



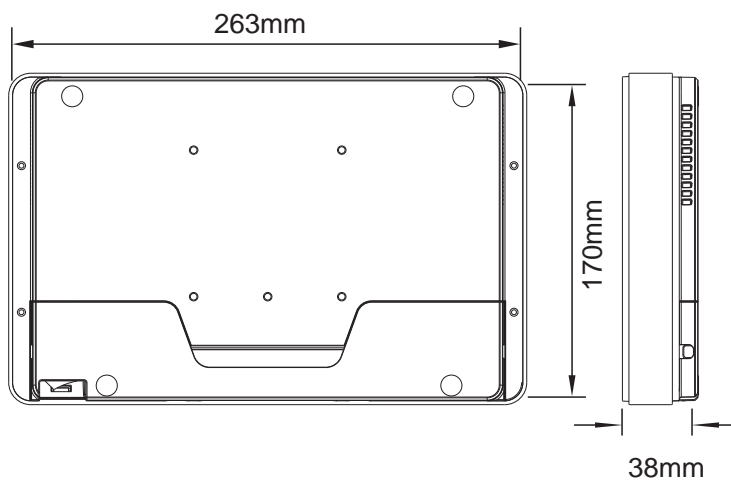
Item No.	Description
a	Power button
b	DC Jack 19V
c	VGA
d	COM3
e	USB2.0 x 1
f	COM1 ~COM2(from right to left)
g	USB 2.0 (x4) (two optional USB)
h	LAN
i	USB3/USB4

D86U Motherboard



Item No.	Description
a	Power button
b	DC Jack 19V
c	VGA
d	COM3
e	USB2.0 x 2
f	COM1 ~ COM2(from right to left)
g	LAN
h	USB2.0 x 2
i	USB2.0 x 1

2-4. Dimensions

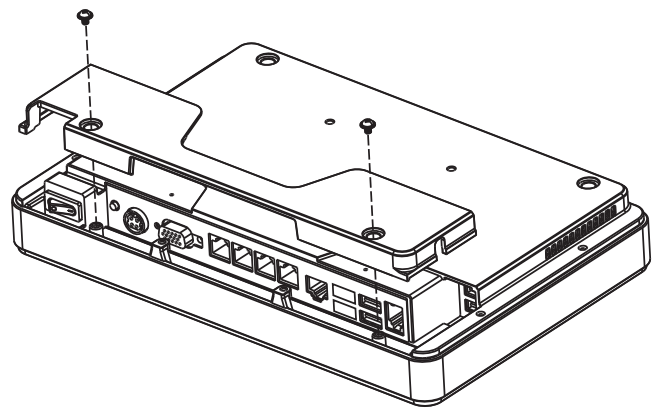


3. System Assembly

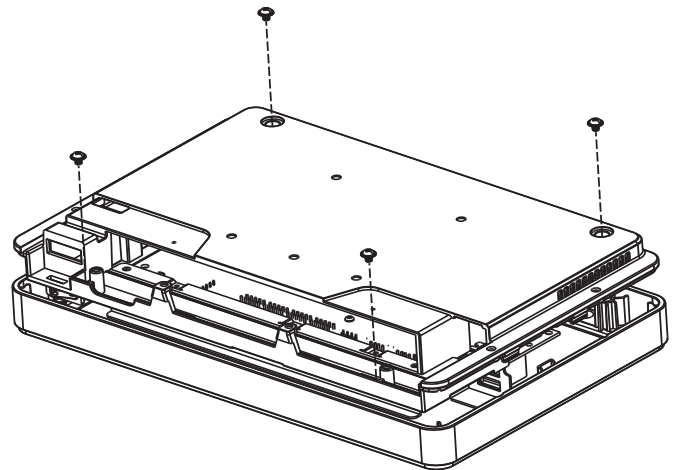
3-1. Open the Chassis Cover

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 screws (x2) to release the cable cover first.



2. Loosen the screws (x4) to open the back cover of the system.

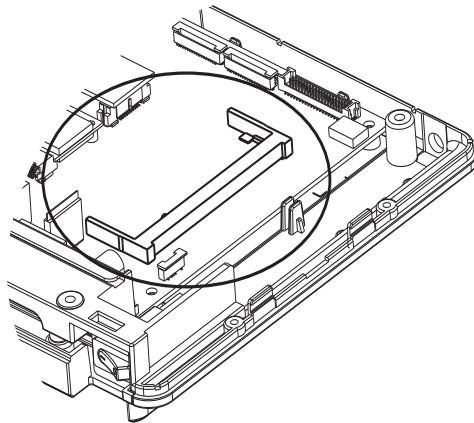


3-2. RAM Module Replacement

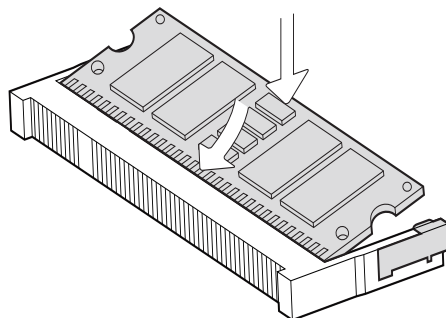
To remove and replace the RAM module, please open the chassis cover firstly as steps dscribed in chapter 3-1.

Removing a RAM module

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

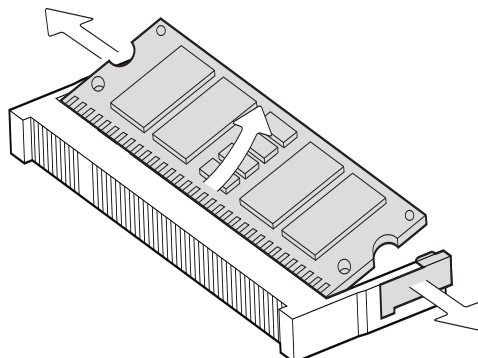


2. Flip the ejector clips outwards to remove the memory module from the memory slot.



Installing a RAM module

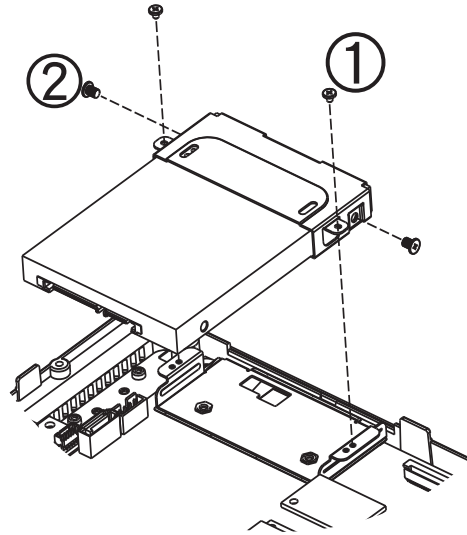
3. Slide the memory module into the memory slot and press down until the ejector clips snaps in place.



3-3. HDD Replacement

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

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.

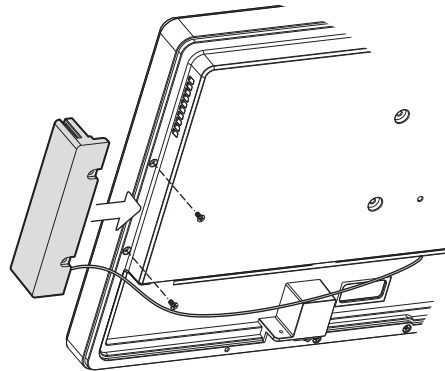


4. Peripherals Installation

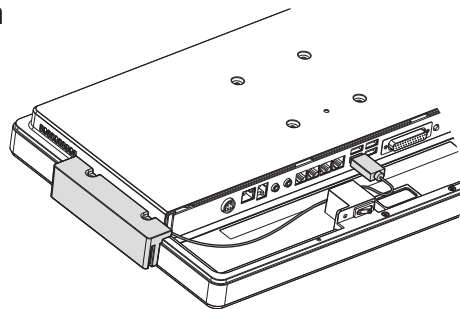
4-1. MSR Installation

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

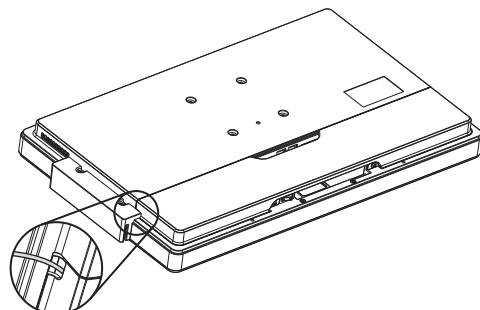
1. Insert MSR module in place and fasten the screws (x2) on the back to secure the module.



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



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



5. Specification

Model Name	K755		
Mainboard	C76	D36	D86U
CPU	Intel Ivy Bridge CPU Celeron 1037U 1.8G, LLC 2MB, 17W	Intel Baytrail QC J1900 2.0G (Turbo 2.41G), L2 2M, 10W	Intel SKYLAKE U CPU Celeron 3955U 2GHz, LLC 2M (15W,EIA) i3-6100U 2.3GHz, LLC 3M (15W, EIA) i5-6300U 2.4GHz, LLC 3M (15W,IA)
Chipset	CPU integrated graphic + Intel HM76 PCH, 4.1W	Integrated in CPU (SoC)	NA
System Memory	1 x DDR3 SO-DIMM up to 8GB, 1333/1600MHz	1 x DDR3L, SO-DIMM x1 , FSB 1066 / 1333Mhz, max. 8G	DDR3L1600MHz (8GB Max); 1 Channel
Graphic Memory	Intel HD Graphics 4000/2500, integrated in CPU, DX11	Intel Gen7@>300MHz	Intel Graphic (Gen 9) DX12, define on CPU
LCD/Touch Panel			
LCD Size	10.1" LED LCD		
Brightness	200 nits		
Maximal Resolution	1366 x 768		
Touch Screen Type	Ture flat resistive touch / True flat projected capacitive 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 3.0	2	1	NA
USB 2.0	4 x USB Type A		
Serial COM	3 x RJ45 COM ports (COM1/2/3 powered RS232; COM1 and COM2 default 5V, COM3 default 12Vby BIOS setting)	3 x RJ48 (0V/5V/12V default by BIOS setting 0V)	
LAN (10/100/1000)	1 x RJ-45		
VGA	1 x DB 15F		
DC Jack	1 x Latch Type (4pin)		

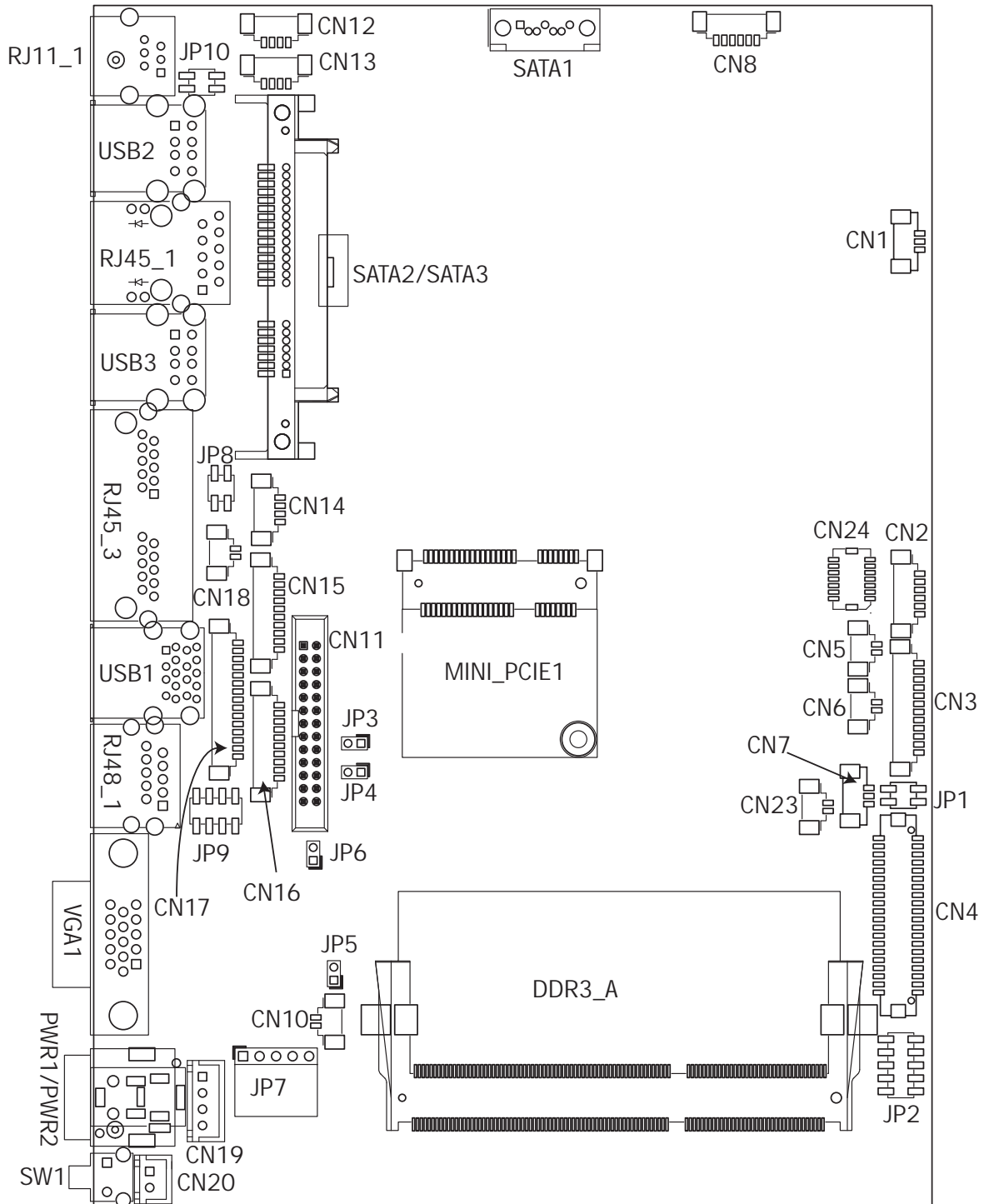
Model Name	K755		
Mainboard	C76	D36	D86U
Power Button	1		
Thermal Solution			
Thermal Solution	Fanless		
Audio			
Speaker	2 x 2W		
Power			
Power Adapter	DC 19V / 65W		DC 19V / 90W
Environment			
EMC & Safety	FCC/CE Class A/LVD		
Operating Temperature	0°C ~ 35°C (32°F ~ 95°F)		
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)		
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, Windows 8, Linux	Windows 7, POSReady 7, Windows 8.1, Linux	Windows 8 (64-bit), Windows Embedded industry 8 (64-bit), Windows 10 (64-bit), Windows IOT 10(64-bit)

* This specification is subject to change without prior notice.

6. Configuration

6-1. C76 Motherboard

6-1-1. Motherboard Layout



6-1-2. Connectors & Functions

Connector	Function
CN1	EC Debug
CN2	USB/Power Button
CN3	Inverter Select
CN4	LVDS Inverter Connector
CN5	Power LED Connector
CN6	HDD LED Connector
CN7	FAN Connector
CN8	Speaker & MIC Connector
CN9	SATA Power Connector
CN10	RTC Connector
CN11	Printer Port Connector
CN12	USB (Internal)
CN13	USB (Internal)
CN14	PS/2 Keyboard Connector
CN15	COM4 Connector
CN16	COM5(Touch) Connector
CN17	MSR Connector
CN18	LAN LED Connector
CN19	DC Jack Connector
CN20	Power Button
CN21	LCM Connector
CN22	BOT 51P Connector
CN23	iButton Connector
CN24	SDR Connector
RJ45_1	LAN Connector
RJ45_3	COM1/ COM2
RJ48_1	COM3
RJ11_1	Cash Drawer Connector
PWR1	DC Jack (2 pin)
PWR2	DC Jack (4 pin)
SATA3	SATA1
SATA2	SATA1
SATA1	SATA2
SW1	Power button
USB1	USB3.0
USB2	USB2.0
USB3	USB2.0
VGA1	VGA Connector
DDR3_A1	DDR3 SO-DIMM
JP1	Inverter Select
JP2	LCD ID Setting
JP3	Auto Power Button
JP4	H/W Reset
JP5	RTC Reset
JP6	ME Debut
JP7	Touch Connector
JP8	COM1 Power Setting
JP9	COM2/COM3 Power Setting
JP10	Cash Drawer Power Setting

6-1-3. Jumper Setting

Inverter Selection

Function	JP1				
▲ LED	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				
CCFL	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				

Cash Drawer Power Setting

Function	JP10				
▲ +19V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				
+12V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				

COM1 Power Setting

Function	JP8				
▲ COM1 +5V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				
COM1 +12V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				

COM2/COM3 Jumper setup

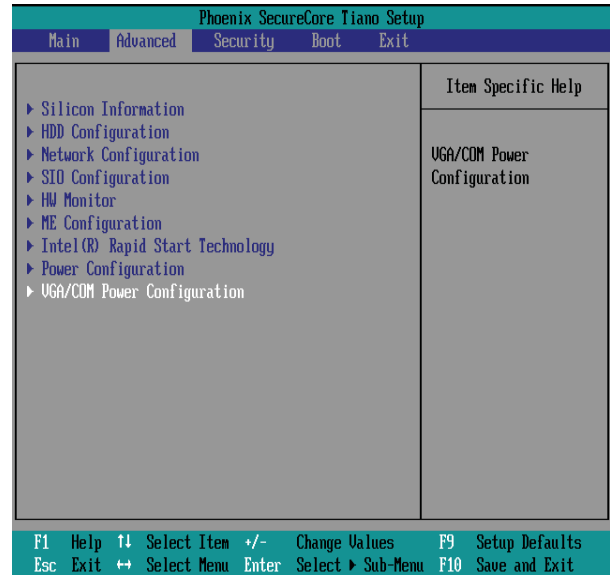
Function		JP6								
COM2	▲ +5V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	2	4	6	8
	1	3	5	7						
2	4	6	8							
+12V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	2	4	6	8	
1	3	5	7							
2	4	6	8							
COM3	+5V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	2	4	6	8
	1	3	5	7						
2	4	6	8							
▲ +12V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	2	4	6	8	
1	3	5	7							
2	4	6	8							

▲ = Manufacturer Default Setting

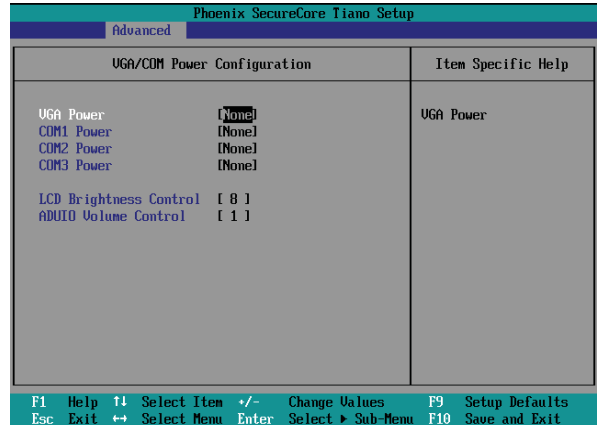
COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V by setting jumper JP8 and JP9 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.

1. Power on the system, and press the 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.



LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3										
		Bits	Channel												
1	800 x 600	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
2	800 x 600	24	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="padding: 0 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="padding: 0 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
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3	1024 x 768	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
4	1024 x 768	24	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
5	1366 x 768	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
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6	1366 x 768	24	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
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1	3	5	7	9											
2	4	6	8	10											
8	1280 x 1024	24	Dual	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
9	1440 x 900	24	Dual	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
15	1920 x 1080	24	Dual	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
				CRT	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">7</td><td style="border: 1px solid black; padding: 2px 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">8</td><td style="border: 1px solid black; padding: 2px 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											

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2

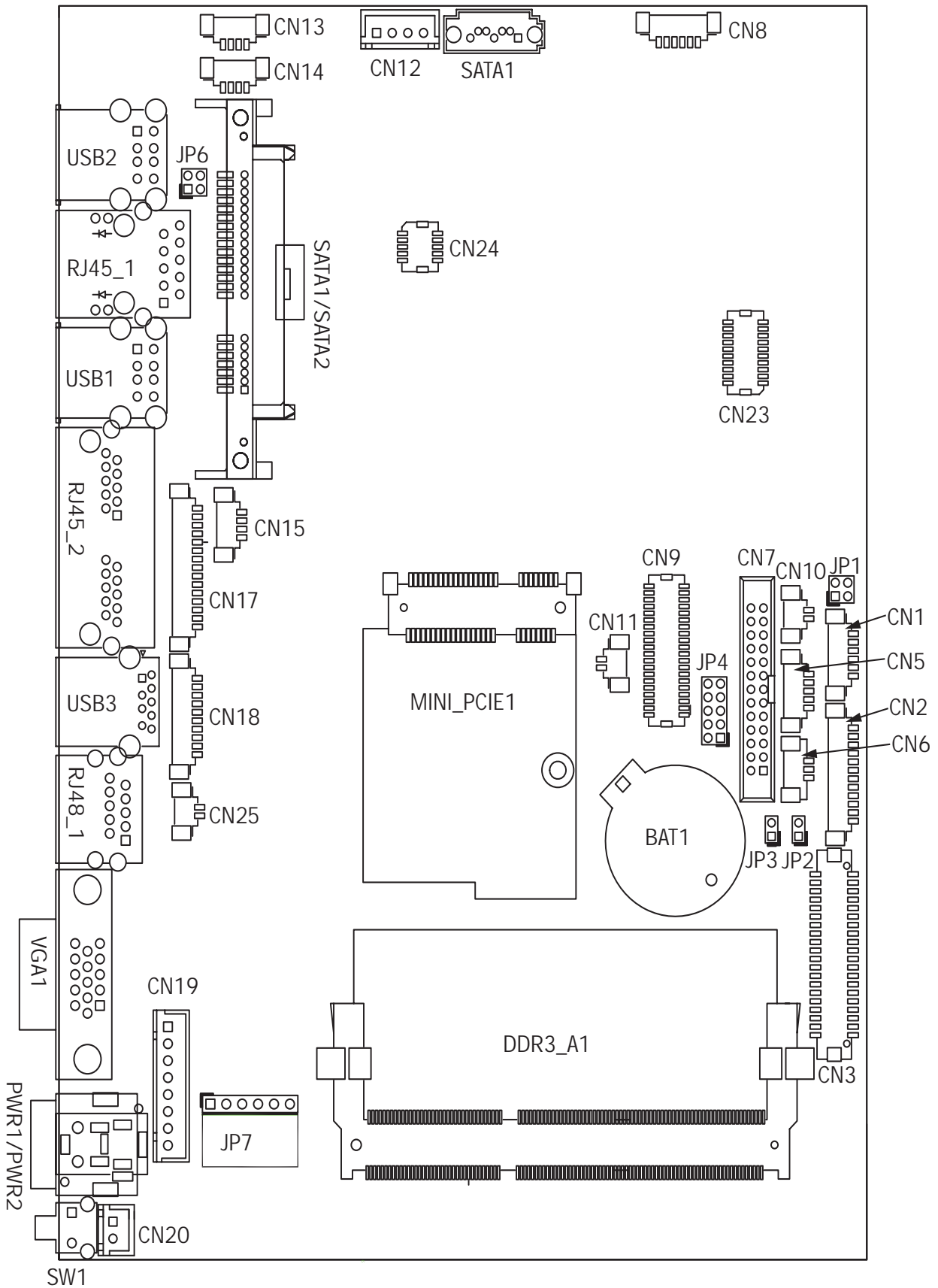
 Jumper open

1
2

 Jumper short

6-2. D36 Motherboard

6-2-1. Motherboard Layout



6-2-2. Connectors & Functions

Connector	Function
CN1	Front I/O board
CN2	Inverter connector
CN3	LVDS connector
CN6	System FAN connector
CN7	LPT port connector
CN8	Speaker & MIC connector
CN9	40pin external connector
CN10	HDD LED connector
CN11	Power LED connector
CN12	SATA power connector
CN13/14	USB port (internal)
CN15	PS2 keyboard connector
CN17	MSR connector
CN18	COM5 (touch) connector
CN19	Wide Range
CN20	Power button (internal)
CN21	LCM connector
CN22	POS325 51pin connector
CN25	S5/S0 Status LED
PWR1/PWR2	DC Jack
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
DDR3_A1	DDR3 SO-DIMM
SATA0/SATA2	SATA
USB1/USB2	USB2.0
USB3	USB3.0
VGA1	CRT connector
SW1	Power button
MINI_PCIE1	MINI PCIE
JP1	Inverter select
JP4	LCD ID setting
JP7	Touch connector

6-2-3. Jumper Setting

Inverter Selection

Function	JP1				
▲ LED	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				
CCFL	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				

COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.

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



4. To enable the power, select COM1, COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



▲ = Manufacturer Default Setting

LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3										
		Bits	Channel												
1	800 x 600	18	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
2	800 x 600	24	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
3	1024 x 768	18	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
4	1024 x 768	24	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
5	1366 x 768	18	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
6	1366 x 768	24	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
7	1024 x 600	18	Single	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
8	1280 x 1024	24	Dual	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
9	1440 x 900	24	Dual	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
15	1920 x 1080	24	Dual	LVDS Panel	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
				CRT	<table style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											

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2

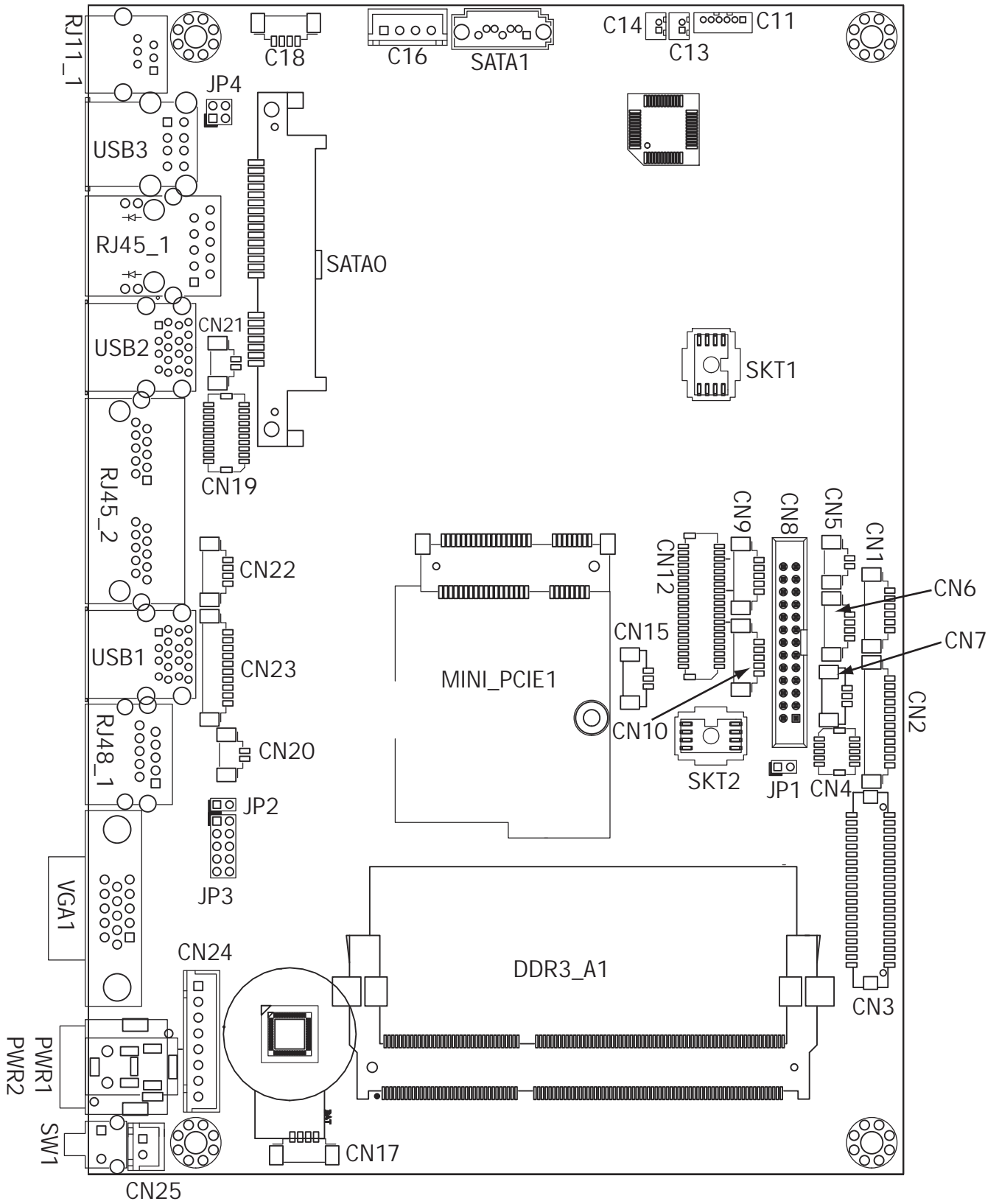
 Jumper open

1
2

 Jumper short

6-3. D86U Motherboard

6-3-1. Motherboard Layout



6-3-2. Connectors & Functions

Connector	Function
CN1	Front I/O board
CN2	Inverter connector
CN3	LVDS connector
CN4	NFC
CN5	HDD LED connector
CN6	USB connector
CN7	System FAN connector
CN8	LPT port connector
CN9	Smart device connector
CN10	Debug port
CN11	Speaker & MIC connector
CN12	40 pin external connector
CN13	Audio connector(right)
CN14	Audio connector(left)
CN15	two color LED
CN16	SATA power connector
CN17/18	USB connector
CN19	SDR connector
CN20	Battery connector
CN21	Power LED connector
CN22	PS/2 connector
CN23	COM5 connector
CN24	Wide range connector
CN25	Power button connector
CN26	LCM connector
CN27	51 pin connector
PWR1/PWR2	DC Jack
RJ11_1	Cash drawer connector
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
DDR3_A1	DDR3 SO-DIMM
SATA0/SATA1	SATA connector
USB1/USB2	USB3.0
USB3	USB2.0
VGA1	CRT connector
SW1	Power button
MINI_PCIE1	MINI PCIE
JP1	Hardware reset
JP2	RTC reset
JP3	LCD ID setting
JP4	Cash drawer power setting

6-3-3. Jumper Setting

Cash Drawer Power Setting

Function	JP4				
▲ +19V	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				
+12V	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				

COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.

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



4. To enable the power, select COM1, COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



▲ = Manufacturer Default Setting

LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3										
		Bits	Channel												
1	800 x 600	18	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
2	800 x 600	24	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
3	1024 x 768	18	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
4	1024 x 768	24	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
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5	1366 x 768	18	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
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6	1366 x 768	24	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
7	1024 x 600	18	Single	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
8	1280 x 1024	24	Dual	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
9	1440 x 900	24	Dual	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
15	1920 x 1080	24	Dual	LVDS Panel	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
				CRT	<table border="0"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											

1	Jumper open	1	Jumper short
2		2	

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".