

Version 1.4 December 2013

Point-of-Sale 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.

CE MARK

Ce

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

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

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

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

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

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

Revision History

Revision	Date	Description
V1.0	Sep, 2009	Release
V1.1	June, 2011	• C46 MB added
V1.2	July,2012	• C56 MB added
V1.3	December, 2012	 I/O port changed Rear cover changed MSR module changed
V1.4	December, 2013	C36 MB removedC76 MB added

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Item Checklist

1-1 Standard Items



1-2 Optional Items

a. MSR module	b. Finger print
c. VFD module	d. Second display
e. Wall mount kit	f. Wireless LAN card
g. SSD card module]

System View

2-1 Front View



Number	Description
1	Touch screen
2	MSR module (Option)
3	Power button

2-2 Rear View



Number	Description			
5	VFD cover (for VFD & Second display installation)			
6	Stand/Wall mount kit installing place			
7	Stand			
8	Cable management outlet			

2-3 Bottom View



Number	Description
9	Stand pad

2-4 I/0 View

C46/56 Motherboard





No	Description			
а	Cash drawer			
b	USB x 4			
С	LAN			
d	COM1~4 (from right to left)			
е	VGA			
f	Power jack for system			
g	Power button			
h	HDD			
i	Parallel (standard) / USB x 2 (optional)			
j	HDD clip			

C76 Motherboard

Standard



Optional



No	Description		
а	Cash drawer		
b	USB x 4 (2.0)		
С	COM1~3 (from left to right)		
d	VGA		
е	Power jack for system		
f	Power button		
g	HDD		
Н	LAN		
i	USB x 2 (3.0)		
j	Parallel (standard) / USB x 2 (optional)		
k	HDD clip		

3 Peripherals Installation

3-1 MSR Installation





- 1. Open the dummy cover of the MSR.
- 2. Connect the MSR cable to the connector on the system.



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

3-2 VFD Installation

Accessories:







1. Remove the screws (x2) and slide the VFD cover outward.



- 2. Positioning the VFD metal bracket onto the rear side of the VFD module and fasten the screws (x2).
- 3. Positioning the plastic bracket onto the metal bracket as shown in the picture.





- 4. Fasten the screw (x1) to fix the plastic bracket to the metal bracket and VFD module.
- 5. Slide the VFD module with bracket into the VFD socket.
- 6. Fasten the screws (x2) to fix the VFD module.



7. Connect the VFD cable to the VFD module.



8. Connect the VFD cable to the COM4 port on the System.

3-3 Second Display Installation

To install the 8.4" second display, please open the VFD cover first (See chapter 3-2 step1).

Accessories:



- 1. Place the system face down, make sure not to scratch the screen.
- 2. Place the metal bracket onto the rear side of the second display and fasten the screws (x4) to fix metal bracket with the system.
- 3. Align the plastic bracket onto the metal bracket, and push to the left side until it clicks in place.





- 4. Fasten the screw (x1) to fix the platic bracket and second display module with metal bracket.
- 5. Slide the second display module into the slot.



- 6. Fasten the scrws (x2) to fix the second display moudle with the system.
- 7. Connect the VGA cable to the second display module and the COM port on the system.



3-4 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	Re	served	Wr	ite	Rese	erved



- 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 FXF program	under DOS or Windows98
000 Debug.ene program	

Cor	nmand	Cash Drawer	
0 48C 04		Opening	
0 48C 00		Allow to close	
\triangleright	Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by "DOUT		
	bit0" pin control.		
\succ	Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.		

Cor	nmand	Cash Drawer
148	3C	Check status
\triangleright	The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or n	
exist.		
\blacktriangleright	The I/O address 480	Ch bit6 =0 mean the Cash Drawer is closed.

3-5 Wall Mount Kit

Before installing the Wall Mount Kit, please remove the stand first if needed. (See Chapter 4-3)



1. The wall mount Kit installing place is at the rear side of the system.



- 2. Place "b" onto the rear side of the LCD rear cover.
- 3. Place "c" onto the hole of the monitor plate and fasten the screw (x1).
- 4. Fasten the screws (x4) to fix the monitor plate.





- 5. Fix "a" on the wall.
- 6. Fasten the thumb screw (x1).
- 7. Align the large end of the teardrop mounting holes (x4) on the wall plate with the screws (x4) on the systems rear cover. Slide the wall plate until the screws are even with the narrow end.

4 System Assembly & Disassembly

4-1 Replace the HDD



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



2. The HDD is secured by a clip, please push the clip aside as the picture shows.



3. Pull the plastic tab (see picture) to remove the hard drive.

4-2 Replace the Power Adapter



1. Unfasten the thumb screw (x1) to seperate the retaining metal bracket from the stand and take out the power adapter.

4-3 Remove the System Stand



- 1. Remove the screws (x2) that secure the stand and the system.
- 2. Remove the screws (x4) that fasten the plastic VESA mounting plate and the LCD rear cover.



3. Remove the VESA metal bracket,.

Specification

Model Name	P0\$335			
Motherboard	C46	C56	C76	
CPU support	Intel PineTrial D525 dual-core 1.8G, L2 1M, FSB667/ 800MHz	Intel Cedarview D2550 dual-core 1.86GHz, L2 1M	Intel Ivy Bridge Celeron 1007U Dual Core 1.5 G, LLC 2M, 22nm, 17W	
Chipset	CPU integrated graphic + ICH8M	CPU integrated graphic + NM10	Intel PCH HM76	
System memory	1 x DDR3 SO-DIMM socket up to 2GB	1 x DDR3 SO-DIMM up to 4GB, 1066MHz	1 x DDR3 -1600Hz, SO-DIMM, default 2GB, max. 8GB	
Graphic memory	Intel GMA 3150 share system memory up to 256MB	Intel GMA 3650 (Gfx frequency up to 640MHz), DX9	Intel HD graphic DX11 and OCL1.1	
LCD Touch Panel				
LCD size		15" LED		
Brightness	250 nits		250~300 nits	
Maximal resolution	1024 x 768			
Touch screen type	Resistive			
Tilt angle	10 ~ 90°			
Storage				
HDD	One 2.5" SATA HDD bay			
Flash memory		SATA SSD flash card (opti	on)	
Expansion				
PCI-E socket	1			
External I/O Ports				
	1			
Parallel	(one parallel port is included in standard packing; optional packing includes two additional			
	USB port instead of parallel port)			
USB (V2.0)	4 or 6 (printer port is replaced with two additional USB)		8 (2 x USB3.0/2.0, 6 x USB2.0)	
			3 x RJ45 COM ports	
	4 x RJ-45 COM connectors (COM1 & COM2 standard		(COM1/2/3 powered RS232;	
Serial / COM	RS-232; COM3 & COM4 pin10 with 5V /12V power by		COM1 default 5V; COM2 default	
	BIOS)		5V; COM3 default 12V by BIOS setting)	
LAN (10/100/1000)	1 x RJ45			

Model Name	P0\$335					
Motherboard	C46	C56	C76			
DC jack	1					
2nd VGA	1 (DB-15 Female, power by BIOS configuration)					
Cash drawer	1 (12V/24V cash drawer power by BIOS configuration)					
Audio	Audio					
Speaker	2 x 2W speakers (Option)					
Power						
Power adapter		90W, 19V				
Control / Indicator						
Power button		1				
Indicator LED		1				
Peripherals						
Finger print		Digital personal module (US	SB)			
MSR module		MSR (USB)				
Customer display	2 x 20 VFD customer display (COM)					
Second display		8.4" 2nd display without to	uch			
Communication						
Wireless LAN	802.11 b/g/n wireless LAN card & antenna (Option)					
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 condens	sing			
Dimension	L	CD 4 degree : 365.2 x 296.2 x 2	82.2 mm			
(W x D x H)	LC	CD 84 degree : 365.2 x 217.8 x 3	343.1 mm			
Weight (N.W./G.W.)		5.8kgs / 6.8kgs				
Mounting		100mm x100mm VESA standar	d holes			
OS support	POSReady 200 Window	ional, Windows Embedded, s XP Embedded, Windows XP ed, WinCE, Windows7, Linux 9,	Windows XP professional, POS Ready 2009, Windows XP Embedded, Windows XP professional for Embedded, Linux, Windows 7, Windows 8			
* This specification is sub	pject to change without prio	r notice.				

6-1 C46 Motherboard 6-1-1 Motherboard Layout



6-1-2 Connectors & Functions

Connector	Function
CN3	USB
CN4	Speaker & MIC CONN
CN5	SATA Power
CN6	USB
CN8	For external Touch
CN9	Card reader
CN12	PS2 Keyboard
CN13	HDD LED CONN
CN16	Inverter
CN17	тиосн
CN18	Power LED CONN
CN19	LVDS (24bit)
CN20	SYSTEM FAN
CN21	DC-JACK
CN22	POWER BOTTOM CONN
CN25	Battery CONN
PWR3	DDR3 SO-DIMM1
RJ11_3	SATA Connector
RJ45_3	SATA Connector
RJ45_4	Power Button
SATA2	CMOS Operation Mode
SKT3	VGA Port
USB3	COM2 RS232/485/422 Setting
USB4	LCD ID Setting
VGA3	Power Mode Setting
JP3	Cash Drawer power selection
JP4	AT/ATX
JP5	CMOS Operation Mode
JP6	LCD ID Setting
JP7	H/W RESET
JP8	CRT Power Setting
JP9	COM Power Setting
JP10	Inverter Selection

6-1-3 Jumper Setting

Cash Drawer Power Setting

Function	JP3 (1-2) (3-4)
▲+19V	1 3 2 4
+12V	1 3 2 4

Power Mode Setting

Function	JP4 (1-2)
▲ ATX Power	1 2
AT Power	1 2

System Reset

Function	JP7 (1-2)
▲ System Normal	1 2
System Reset	1 2

CRT Power Ctrl

Function	JP8 (1-2)
▲ HW	1 2
BIOS	1 2
▲ = Manufacturer Default Setting OF	SHORT

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)
- 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.

CMOS Operation Mode

Function	JP5 (1-2)
▲ CMOS Normal	1 2
CMOS Reset	1 2

Inverter Selection

Function	JP10 (1-2) (3-4) (5-6)
▲ CCFL	1 3 5 2 4 6
LED	1 3 5 2 4 6
▲ = Manufacturer Default Setting	• OPEN • SHORT

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 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

- 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
- Select Power Configuration
 COM/VGA Ports and press
 <Enter> to go to display the available options.
- 4. To enable the power, select COM3 Power Setting or COM4 Power setting and press
 <Enter>. Select Power and press <Enter>.
 Save the change by pressing F10.

VARNING: Setting wrong values in below sections	VGA Ports	
may cause system to malfunction.		
► CPU Configuration		
► IDE Configuration		
SuperIO Configuration Hardware Health Configuration		
ACPI Configuration		
AHCI Configuration		
APM Configuration Power Configuration CUM/UGA Ports +	Select Screen	
► MPS Configuration 14	Select Item	
	r Go to Sub Screen General Help	
► USB Configuration F1		

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BIOS SETUP UTILITY				
Advanced				
Power Configuration COM/	VGA Ports	Enable standard Power — Setting COM3 +5V,		
VGA Power Setting COM3 Power Setting COM4 Power Setting	[No Power] [None] [None]	COM4 +12U POWER, OR NOME Power Select COM3 +12U/COM4 +5U by hardware jumper pin9		
Brightness Control	[Level 7]	depending on board jumper setting		
	None Power	 Select Screen Select Item Change Option General Help F10 Save and Exit ESC Exit 		
v02.68 (C) Copy	right 1985–2009, Americar	h Megatrends, Inc.		

Function	JP9 (1-2) (3-4) (5-6) (7-8)
▲COM3 +5V	1 3 5 7 2 4 6 8
COM3 +12V	1 3 5 7 2 4 6 8
COM4 +5V	1 3 5 7 2 4 6 8
▲ COM4 +12V	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

COM 3 & COM4 Power Setting

LCD ID Setting

Resolution		LVDS/TTL		Output Interfect	JP6	
Res	SOIU	tion	Bits	Channel	Output Interface	(1-2) (3-4) (5-6) (7-8)
800	х	600	24	Single		$\begin{array}{cccc}1&3&5&7\\2&4&6&8\end{array}$
1024	x	768	24	Single		1 3 5 7 2 4 6 8
1366	x	768	24	Single	1 st : LCD Panel	1 3 5 7 2 4 6 8
800	x	600	18	Single	2 nd : VGA Port	$ \begin{bmatrix} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{bmatrix} $
*800	x	600	18	Single		$ \begin{bmatrix} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{bmatrix} $
1024	x	768	18	Single		$ \begin{bmatrix} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{bmatrix} $
					CRT only (Pineview CRT only)	$\begin{bmatrix} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{bmatrix}$

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

2nd VGA Power Setting

VGA port power must be enabled through BIOS/Utility. The Default Setting is "No Power".

- 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
- Select "Power Configuration COM/VGA Ports" and press <Enter> to go to display the available options.

Idvanced Settings	Power Configuration
IARNING: Setting wrong values in below sections may cause system to malfunction.	- COM/UGA Ports
 CPU Configuration IDE Configuration SuperIO Configuration Hardware Health Configuration ACPI Configuration AHCI Configuration APM Configuration POwer Configuration CON/UGA Ports MPS Configuration PCI Express Configuration USB Configuration 	 Select Screen Select Item Enter Go to Sub Scree F1 General Help F10 Save and Exit ESC Exit

4. To switch on the power, select
"+12V" press <Enter>. Please
Save the change by pressing F10.

Power Configuration COM/VGA Ports		WARNING, WILL DAMAGE
UGA Power Setting COM3 Power Setting COM4 Power Setting	[No Power] [None] [None]	MONITOR IF ENABLED
Brightness Control	[Level 7]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Saue and Exit

6-2 C56 Motherboard 6-2-1 Motherboard Layout



Connectors **Functions** 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) Front I/O Connector(USB/power LED/ Power button) CN18 PWR2/3 +19V DC JACK RJ11_1 Cash Drawer Connector RJ45_1 LAN Connector RJ45_2 COM1/ COM2/ COM3/ COM4 DDR2_A1 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

6-2-2 Connectors & Functions

6-2-3 Jumper Setting

Cash Drawer Power Setting

Function	JP9 (1-2) (3-4)
▲+19V	1 3 2 4
+12V	1 3 2 4

Inverter Selection

Function	JP1 (1-2) (3-4) (5-6)
▲ LED	1 3 5 2 4 6
CCFL	1 3 5 2 4 6

COM2 Power Setting

Function	JP5 (1-2) (3-4)
▲ No Power	1 3 2 4
COM2 +5V	1 3 2 4
COM2 +12V	1 3 2 4
▲ = Manufacturer Default Setting OF	PEN SHORT

COM 3 & COM4 Power Setting

Function	JP6 (1-2) (3-4) (5-6) (7-8)
▲COM3 +5V	1 3 5 7 2 4 6 8
COM3 +12V	1 3 5 7 2 4 6 8
COM4+ 5V	$\begin{array}{cccc} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{array}$
▲ COM4 +12V	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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.

- 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.
- Select VGA/COM Power and LCD Brightness Configuration Ports and press <Enter> to go to display the available options.
- 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.



Phoenix SecureCore Tiano Setup				
Advanced				
UGA/COM Power and LCD Brightness Configuration Item Specific Help				
UGA Power Nonel COM2 Power Comel COM3 Power Comel COM4 Power Comel Powered Powered				
	ange Values F9 Setup Defaults lect ► Sub-Menu F10 Save and Exit			

LCD ID Setting					
Panel	Resolution		VDS	Output	JP3
Number		Bits	Channel	Interface	(1-2) (3-4) (5-6) (7-8) (9-10)
1	800 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
2	800 x 600	18	Single	LVDS Panel	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
3	800 x 600	24	Single	LVDS Panel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
4	1024 x 600	18	Single	LVDS Panel	$ \begin{array}{c} 1 & 3 & 5 & 7 & 9 \\ 2 & 4 & 6 & 8 & 10 \end{array} $
5	1024 x 768	18	Single	LVDS Panel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6	800 x 600	24	Single	LVDS Panel	$ \begin{bmatrix} 1 & 3 & 5 & 7 & 9 \\ 2 & 4 & 6 & 8 & 10 \end{bmatrix} $
7	1024 x 768	24	Single	LVDS Panel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
10	1366 x 768	18	Single	LVDS Panel	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
11	1366 x 768	24	Single	LVDS Panel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
				CRT	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

*Panel No.6 for 8.4" (HSD0841SN1-A01)HANNSTAR and 10.4" (A1048N03 V.1) AUO

2nd VGA Power Setting

- 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.
- Select VGA/COM Power and LCD Brightness Configuration Ports and press <Enter> to go to display the available options.
- To switch on the power, select "+12V" press <Enter>. Please Save the change by pressing F10.

Phoenix SecureCore Main Advanced Security Bo			
Setup Warning:	Item Specific Help		
Setting withing. Setting items on this screen to incorrect values may cause the system to malfunction! Boot Configuration Processor Configuration Serial ATA (SATA) North Bridge Configuration South Bridge Configuration SID Configuration HW Monitor Intel Fast Flash Standby Power Configuration VGA/COM Power and LCD Brightness Configuration			
	e Values F9 Setup Defaults t ► Sub-Menu F10 Save and Exit		

Phoenix SecureCore Tiano Setup Advanced			
VGA/COM Power and LCD Brightness Configuration	m Item Specific Help		
UGA Power (None) COM2 Power (None) COM3 Power (None) COM4 Power (None) LCD Brightness Control [8 1	UGA Power		
F1 Help 14 Select Item +/- Change Valu Esc Exit ↔ Select Menu Enter Select ► Su			



6-3-2 Connectors & Functions

CN1EC DebugCN2USB/Power ButtonCN3Inverter SelectCN4LVDS Inverter ConnectorCN5Power LED ConnectorCN6HDD LED ConnectorCN7FAN ConnectorCN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN111Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM4 ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_1LAN ConnectorRJ45_1LAN ConnectorRJ45_2COM1/ COM2RJ45_1LAN ConnectorRJ45_1DO Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (2 pin)PWR3SATA2SATA1SATA2SM1Power buttonUSB2USB2.0USB3USB2.0USB3USB2.0 <t< th=""><th>Connectors</th><th colspan="4">Functions</th></t<>	Connectors	Functions			
CN2USB/Power ButtonCN3Inverter SelectCN4L/DS Inverter ConnectorCN6HDD LED ConnectorCN7FAN ConnectorCN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN11Driver ButtonCN12USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN24SDR ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_1LAN ConnectorRJ48_1COM3 ConnectorRJ48_1COM3 ConnectorRJ48_1COM3 ConnectorRJ48_1COM1/ COM2RJ48_1COM3 ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (2 pin)PWR1DC Jack (2 pin)SATA2SATA1SATA2SATA1SATA2SATA1SATA2SATA2SW1Power buttonUSB2USB2.0USB3USB2					
CN3Inverter SelectCN4LVDS Inverter ConnectorCN5Power LED ConnectorCN6HDD LED ConnectorCN7FAN ConnectorCN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13LSB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1COM3 ConnectorRJ45_1COM3 ConnectorRJ45_1COM3 ConnectorRJ45_1DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA3SATA1SATA1SATA2SW1Power buttonUSB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.	CN2				
CN5Power LED ConnectorCN6HDD LED ConnectorCN7FAN ConnectorCN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorCN25COM1/ COM2RJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_3COM1/ COM2RJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA3SATA1SATA3SATA1SATA3SATA1SATA3SATA1SATA1SATA2SW1Power buttonUSB2USB2.0USB3USB2.0VGA1VGA ConnectorDD73_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power SuttonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch Connector	CN3				
CN6HDD LED ConnectorCN7FAN ConnectorCN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorCN25COM1/ COM2RJ45_1LAN ConnectorRJ45_1COM3 ConnectorBU3USB3.0USB3USB3.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3	CN4				
CN7FAN ConnectorCN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN21LCM ConnectorCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorCN25COM1/ COM2RJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_4COM3 ConnectorPWR1DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA2SATA1SATA2SATA1SATA2SATA1SB1USB3.0USB1USB3.0USB2USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3JDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1/COM3 Power SettingJP9COM2/COM3 Power	CN5				
CN8Speaker & MIC ConnectorCN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1LAN ConnectorRJ45_1CAM3 ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorPWR1DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA2SATA1SATA2SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0JP4H/W Reset<	CN6				
CN9SATA Power ConnectorCN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN23iButton ConnectorCN24SDR ConnectorCN24SDR ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1LAN ConnectorRJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB2.0USB2USB2.0USB2USB2.0USB2USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB2USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0<	CN7	FAN Connector			
CN10RTC ConnectorCN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23iButton ConnectorCN24SDR ConnectorCN25GOT 51P ConnectorCN26COM1/ COM2RJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_3COM1/ COM2RJ45_4COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA1SATA1SATA1SATA1SATA1SB1USB3.0USB2USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB2LCD ID SettingJP1Inverter SelectJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM2/COM3 Power SettingJP9COM2/COM3 Power Setting	CN8	Speaker & MIC Connector			
CN11Printer Port ConnectorCN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN23iButton ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1COM3 ConnectorRJ45_3COM1/ COM2RJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA2SATA1SATA2SM1Power buttonUSB2USB2.0USB3USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP9COM2/COM3 Power SettingJP9COM2/COM3 Power Setting	CN9	SATA Power Connector			
CN12USB (Internal)CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1CM3 ConnectorRJ45_1COM3 ConnectorRJ45_3COM1/ COM2RJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA2SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA connectorJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN10	RTC Connector			
CN13USB (Internal)CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorCN23COM1/ COM2RJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1CASh Drawer ConnectorRJ45_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA3SATA1SATA1SATA2SW1Power buttonUSB2USB3.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN11	Printer Port Connector			
CN14PS/2 Keyboard ConnectorCN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN23iButton ConnectorCN24SDR ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_3COM1/ COM2RJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA1SATA1SATA1SB3USB2.0USB3USB2.0VGA1VGA ConnectorJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP9COM2/COM3 Power Setting	CN12	USB (Internal)			
CN15COM4 ConnectorCN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_4COM3 ConnectorRJ45_3COM1/ COM2RJ44DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0USB3USB2.0USB3USB2.0USB3USB2.0JP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP9COM2/COM3 Power Setting	CN13	USB (Internal)			
CN16COM5(Touch) ConnectorCN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1CAN3 ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB2USB2.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN14	PS/2 Keyboard Connector			
CN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1CAN3 ConnectorRJ45_1COM3 ConnectorRJ45_3COM1/ COM2RJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB2USB2.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN15	COM4 Connector			
CN17MSR ConnectorCN18LAN LED ConnectorCN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ45_1CAN3 ConnectorRJ45_1COM3 ConnectorRJ45_3COM1/ COM2RJ45_1DC Jack (2 pin)PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB2USB2.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN16	COM5(Touch) Connector			
CN19DC Jack ConnectorCN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ41_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN17				
CN20Power ButtonCN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN18	LAN LED Connector			
CN21LCM ConnectorCN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN19	DC Jack Connector			
CN22BOT 51P ConnectorCN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP2LCD ID SettingJP3Auto Power ButtonJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN20	Power Button			
CN23iButton ConnectorCN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN21				
CN24SDR ConnectorRJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN22				
RJ45_1LAN ConnectorRJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN23				
RJ45_3COM1/ COM2RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	CN24				
RJ48_1COM3 ConnectorRJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power Setting	RJ45_1				
RJ11_1Cash Drawer ConnectorPWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power Setting	RJ45_3	COM1/ COM2			
PWR1DC Jack (2 pin)PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	RJ48_1				
PWR2DC Jack (4 pin)SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power Setting	RJ11_1				
SATA3SATA1SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power Setting	PWR1				
SATA2SATA1SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	PWR2				
SATA1SATA2SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	SATA3				
SW1Power buttonUSB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	SATA2	SATA1			
USB1USB3.0USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	SATA1				
USB2USB2.0USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	SW1	Power button			
USB3USB2.0VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	USB1	USB3.0			
VGA1VGA ConnectorDDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	USB2	USB2.0			
DDR3_A1DDR3 SO-DIMMJP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	USB3	USB2.0			
JP1Inverter SelectJP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	VGA1	VGA Connector			
JP2LCD ID SettingJP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	DDR3_A1	DDR3 SO-DIMM			
JP3Auto Power ButtonJP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP1				
JP4H/W ResetJP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP2				
JP5RTC ResetJP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP3				
JP6ME DebutJP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP4				
JP7Touch ConnectorJP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP5	,			
JP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP6				
JP8COM1 Power SettingJP9COM2/COM3 Power Setting	JP7				
JP9 COM2/COM3 Power Setting	JP8				
	JP9				
JPTO Cash Drawer Power Setting	JP10	Cash Drawer Power Setting			

6-3-3 Jumper Setting

Inverter Selection

Function	JP1 (1-2) (3-4)
▲ LED	1 3 2 4
CCFL	1 3 2 4

Cash Drawer Power Setting

Function	JP10 (1-2) (3-4)
▲+19V	1 3 2 4
+12V	1 3 2 4

COM1 Power Setting

Function	JP8 (1-2) (3-4)		
▲COM1 +5V	1 3 2 4		
COM1 +12V	1 3 2 4		
▲ = Manufacturer Default Setting	OPEN SHORT		

COM2 & COM3 Power Setting

Function	JP9 (1-2) (3-4) (5-6) (7-8)				
▲COM3 +5V	1 3 5 7 2 4 6 8				
COM3 +12V	1 3 5 7 2 4 6 8				
▲ COM4 +5V	1 3 5 7 2 4 6 8				
COM4 +12V	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$				

COM1/COM2/COM3 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 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.

- 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.
- Select VGA/COM Power and LCD Brightness Configuration Ports and press <Enter> to go to display the available options.
- 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.

Phoenix SecureCore Tiano Setup					
Main	Advanced	Security	Boot	Exit	
					Item Specific Help
 SIO Confi HW Monito ME Config Intel(R) Power Con 	guration Configuration guration puration Rapid Start	. Technology			UGA/COM Power Configuration
F1 Help	↑↓ Select	Item +/-	Change	llaluee	F9 Setup Defaults
Esc Exit	↔ Select			▶ Sub-Menu	

Phoenix SecureCore Tiano Setup Advanced				
VGA/COM Power Configuration	om Item Specific Help			
UGA Power []One] COM1 Power [None] COM2 Power [None] COM3 Power [None] LCD Brightness Control [8] ADUIO Volume Control [1]	UGA Power			
	hange Values F9 Setup Defaults elect ▶ Sub-Menu F10 Save and Exit			

LCD ID Setting

LCD ID Setting Panel LVDS Output JP3					
Number	Resolution	Bits	Channel	Interface	(1-2) (3-4) (5-6) (7-8) (9-10)
1	800 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
2	800 x 600	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
3	1024 x 768	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
4	1024 x 768	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
5	1366 x 768	18	Single	LVDS Panel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6	1366 x 768	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
7	1024 x 600	18	Single	LVDS Panel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
8	1280 x 1024	24	Dual	LVDS Panel	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
9	1440 x 900	24	Dual	LVDS Panel	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
15	1920 x 1080	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
				CRT	1 3 5 7 9 2 4 6 8 10
▲ = Manufact	turer Default Setting	<u>۲</u>	OPEN	SHORT	

7 Appendix: Driver Installation

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