# **User Manual**

Version 1.1 July 2014

# 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 CE MARK This device with regard Directive"

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"

# FC

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	April, 2014	Release
V1.1	July, 2014	D16 motherboard added

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# **1** Item Checklist

### **1-1 Standard Items**



# **1-2 Optional Items**



# System View

# 2-1 Front View & Side View





No.	Description
1	Touch screen
2	MSR
3	iButton
4	IO panel
5	Power button
6	Stand hole for cables outlet
7	Stand
8	USB

# 2-2 Rear & Bottom View



No.	Description	
9	VFD	
10	Stand hole for cables outlet	

# 2-3 Dimension



4

# 2-4 I/0 View

#### C56L Motherboard



Number	Description	
а	Cash drawer	
b	USB x 4 (USB2.0)	
С	LAN	
d	COM1~4 (from left to right)	
е	VGA	
f	DC Jack 19V	
g	Power button	
h	Power LED	

#### D16 Motherboard



No.	Description
а	Cash drawer
b	USB x 4 (USB2.0)
С	LAN
d	COM1~4 (from left to right)
е	Mini USB
f	Micro SD
g	DC Jack 19V
h	Power button
i	Power LED

# **3** System Assembly & Disassembly

#### **3-1** Install the Power Adapter

The system is equipped with a power adapter. Please plug it into the system as shown below.

- 1. Put the power adapter outside the stand base and route the power cable through the stand gap as shown in the picture.
- Find the DC Jack on the I/O panel.(refer to chapter 2-4.) and connect the power cable directly to the DC Jack connector.



#### **3-2 Replace the HDD**

1. Remove the HDD dummy cover.

2. Hold the plastic tab and pull the HDD outward.



# **3-3 Disassemble the Stand**

- 1. To separate the stand and the LCD monitor, remove the screws (x2) from the stand hinge directly.
- 2. Reverse the steps above to attach stand to the system.



# **4** Peripherals Installation

## 4-1 Install the MSR Module

MSR/iButton module can be installed to either side of the system. Choose one side and follow the steps below. Make sure the unit is powered down before starting.

1. Remove the dummy cover first.

- 2. Connect the MSR cable to the connector on the system side.
- 3. Insert the MSR module in place and fasten the screws (x2) on the back to secure the module.



## 4-2 Install the iButton Module

1. Remove the dummy cover first.

- 2. Connect the iButton cable to the connector on the system side.
- 3. Insert the iButton module in place and fasten the screws (x2) on the back to secure the module.



## 4-3 Install the Customer Display

1. Remove the HDD dummy cover first.

- Connect the customer display cable (x1) to the connector on system side.
- 3. Attach the customer display and fasten the screws (x2) to fix it.





## 4-4 Install the 2nd Display



- 1. Place the system face down. Making sure not to scratch the screen.
- 2. Attach the  $2^{nd}$  display module to the bottom of the stand. Fix the stand with  $2^{nd}$  display module with screws (x7).



- 3. Thread two ends of the VGA cable respectively through the gaps on the 2nd display and system stand as shown in the above picture.
- 4. When the VGA cable is routed through the stand gap, connect the other end of the cable to the system port.



### 4-5 Install the Cash Drawer

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

#### **Cash Drawer Pin Assignment**



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

#### **Cash Drawer Controller Register**

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

Register Location:48ChAttribute:Read / WriteSize:8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Read	Re	served	Wr	rite	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.EXE program under DOS or Windows98

	0 1 0	
Command	ł	Cash Drawer
0 48C 04		Opening
0 48C 00		Allow to close
Set the set of the	ne I/O address	48Ch bit2 =1 for opening Cash Drawer by "DOUT
bit0"	pin control.	
Set the	ne I/O address	48Ch bit2 = 0 for allow close Cash Drawer.

Command		Cash Drawer		
148	BC	Check status		
$\succ$	The I/O address 480	Ch bit6 =1 mean the Cash Drawer is opened or not		
	exist.			
$\geq$	The I/O address 480	Ch bit6 =0 mean the Cash Drawer is closed.		

# Specification

Model Name	P0S314		
Motherboard	C56L	D16	
CPU support	Intel Cedar View D2550 CPU, 1.86 GHz, L2 1MB	Freescale iMX6 Dual_Lite CPU, 1GHz (ARM Cortex A9) - MCIMX6U5DVM10AB	
Chipset	Intel NM10	Microchip AR1021	
System memory	1 x DDR3 S.O.DIMM up to 4GB, FSB 1066MHz	1GB DDR3 (RAM file system)	
Graphic memory	Intel GMA 3650 (Gfx frequency up to 640MHz), DX9	8G (Boot from EMMC)	
LCD Touch Panel			
LCD size	14.1"	TFT LCD	
Brightness	20	0 nits	
Maximal resolution	136	6 x 768	
Touch screen type	Regular resistive by Abon ,	/ True Flat resistive by Mildex	
Tilt angle	10	°~90°	
Storage			
HDD	1 x 2.5" SATA HDD	NA	
Flash memory card	SATA SSD flash card (Option)	NA	
Expansion			
miniPCI-E slot	1		
Rear I/0	-		
USB	4 x USB Type A (default) (USB 2.0)		
Serial / COM	4 x RJ45 COM (COM1/2 standard RS232; COM3/4 powered RS232; COM2 default 0V; COM3 default 5V; COM4 default 12V by Jumper setting)	4 x RJ45 COM (COM1/COM2 default OV by Jumper; COM3 default 5V; COM4 default 12V by APP)	
LAN (10/100/1000)	1 (	RJ45)	
DC jack	1 (2-	pin type)	
VGA	1 ( +12V power, by jumper setting)	NA	
Cash drawer	1 (RJ11, 12V/24V, default 24V by Jumper setting)	1(RJ11, 12V/24V; default 24V by APP)	
Power switch	1		
Mini USB	NA	1	
Micro SD	NA	1	
Indicator			
Power LED		1	

Model Name	Name POS314			
Motherboard	C56L	D16		
Power				
Power adapter	ower adapter 65W/19V			
Peripherals				
MSR	1	(USB)		
iButton	1	(USB)		
Customer display	LCM display 2 x 2	20 characters (USB)		
Second display	optional 14.1" 2nd display without touch	NA		
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 condensing			
Dimension (W x D x H)	380mm x 180mm x 276mm			
Weight (N.W./G.W.)	3.7kg / 4.7kg			
OS support	Windows® XP Professional, Windows Embedded, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, WinCE, Windows 7, Linux	Android 4.2.2		

\* This specification is subject to change without prior notice.

**6** Jumper Setting

#### 6-1 C56L Motherboard 6-1-1 Motherboard Layout



Connector	Function
CN1	LVDS inverter connector
CN2	System FAN connector
CN3	LVDS connector
CN4	Power LED connector
CN5	HDD LED connector
CN6	Speaker & MIC connector
CN8	SATA power connector
CN9	COM5 (touch) connector
CN10	Printer port connector
CN11/12	USB port (internal)
CN14	PS2 keyboard connector
CN15	Card reader connector (COM6)
CN17	Power button (internal)
PWR2	DC Jack (4 pin)
PWR1	DC Jack (2 pin)
RJ11_1	Cash drawer connector
RJ45_1	LAN connector
RJ45_2	COM1/ COM2/ COM3/ COM4
DDR3_A1	DDR3 SO-DIMM
SATA1/4	SATA1
SATA2	SATA2
USB1/2	USB2.0
VGA1	CRT connector
SW1	Power button
MINI_PCIE1	MINI PCIE
JP1	Inverter select
JP3	LCD ID setting
JP6	COM3/COM4 power setting
JP8	Touch connector
JP9	Cash drawer power setting
JP10	CRT power select
JP11	MSR/PS2 keyboard select

## 6-1-2 Connectors & Functions

# 6-1-3 Jumper Setting

#### **Inverter Selection**

Function	<b>JP1</b> (1-2) (3-4)
▲ LED	1 3 2 4
CCFL	1 3 2 4

#### **Cash Drawer Power Setting**

Function	<b>JP9</b> (1-2) (3-4)
▲+19V	1 3 2 4
+12V	$\begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$

#### **VGA Power Setting**

Function	<b>JP10</b> (1-2)
▲+0V	1 2
+12V	1 2
▲ = Manufacturer Default Setting OP	EN SHORT

#### MSR/PS2 Keyboard Power Setting

Function	<b>JP11</b> (1-2) (3-4)
▲ MSR + PS2 Keyboard	1 3 2 4
MSR	1 3 2 4
Only PS2	$\begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$

#### COM 3 & COM4 Power Setting

Function	<b>JP6</b> (1-2) (3-4) (5-6) (7-8)
COM3 +0V	1 3 5 7 2 4 6 8
▲COM3 +5V	$   \begin{bmatrix}     1 & 3 & 5 & 7 \\     2 & 4 & 6 & 8   \end{bmatrix} $
COM3 +12V	$\begin{array}{cccc}1&3&5&7\\2&4&6&8\end{array}$
COM4 +0V	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	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
COM4 +5V ▲ COM4 +12V	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

▲ = Manufacturer Default Setting

OPEN SHORT

LCD ID Setting					
Panel Resolution		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	$ \begin{array}{c} 1 & 3 & 5 & 7 & 9 \\ 2 & 4 & 6 & 8 & 10 \end{array} $
2	800 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
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	1 3 5 7 9 2 4 6 8 10
				CRT	1 3 5 7 9 2 4 6 8 10

▲ = Manufacturer Default Setting

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## 6-2 D16 Motherboard 6-2-1 Motherboard Layout



D16 V1.0 Top Layer



D16 V1.0 Bottom Layer

Connector	Function
CN1	LVDS inverter connector
CN3	LVDS connector
CN4	Power LED connector
CN6	Speaker & MIC connector
CN7	SATA power connector
CN8/9	USB port (internal)
CN11	Power button connector
CN13	USB port (internal for LCM)
CN15	Micro SD card slot
CN18	HDD LED connector
CN24	NFC connector
CN25	USB port (internal)
PWR1	DC Jack (2 pin)
PWR2	DC Jack (4 pin)
RJ11_1	Cash drawer connector
RJ45_1	LAN connector
RJ45_2	COM1/ COM2/ COM3/ COM4
USB1/2	USB2.0
SW1	Power button
MINI_PCIE1	MINI PCI Expres slot
JP1	Inverter select
JP3	LCD ID setting
JP4	COM1 for debug setting
JP5	Boot source setting
JP6	COM3/4 power setting
JP7	Touch connector
JP8	Cash drawer power setting

## 6-2-2 Connectors & Functions

# 6-2-3 Jumper Setting

#### **Inverter Selection**

Function	<b>JP1</b> (1-2) (3-4)
▲ LED	1 3 2 4
CCFL	1 3 2 4

#### **Debug Port Setting**

Function	<b>JP4</b> (1-2) (3-4)
▲ COM1	1 3 2 4
COM debug	1 3 2 4

#### **Boot Source Setting**

Function	<b>JP5</b> (1-2) (3-4) (5-6) (7-8) (9-10)
▲eMMC	1 3 5 7 9 2 4 6 8 10
SD	1 3 5 7 9 2 4 6 8 10
USB (download)	1 3 5 7 9 2 4 6 8 10
USB (download)	2 4 6 8 10

▲ = Manufacturer Default Setting

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SHORT

#### **Cash Drawer Power Setting**

Function	<b>JP8</b> (1-2) (3-4)
+12V	1 3 2 4
+19V	1 3 2 4
▲ Controlled by MCU	1 3 2 4

#### COM 1 & COM2 Power Setting

Function	<b>JP6</b> (1-2) (3-4) (5-6) (7-8)
COM1 +5V	$\begin{bmatrix} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{bmatrix}$
COM1 +12V	$\begin{array}{cccc}1&3&5&7\\2&4&6&8\end{array}$
▲COM1+0V	1 3 5 7 2 4 6 8
COM2 +5V	$\begin{array}{cccc} 1 & 3 & 5 & 7 \\ 2 & 4 & 6 & 8 \end{array}$
COM2 +12V	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
▲COM2 +0V	1 3 5 7 2 4 6 8

▲ = Manufacturer Default Setting

OPEN SHORT

#### **LCD ID Setting**

Panel	Pocolution	LVDS		Output	JP3	
Number	RESOLUTION	Bits	Channel	Interface	(1-2) (3-4) (5-6) (7-8) (9-10)	
1	1024 x 768	24	Single	LVDS Panel	$ \begin{array}{c} 1 & 3 & 5 & 7 & 9 \\ 2 & 4 & 6 & 8 & 10 \end{array} $	
2	1366 x 768	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10	

▲ = Manufacturer Default Setting



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 the Android APPS.



2. To enable the power, pull the drop down menu to select the power for COM3 or COM4.

#### **Cash Drawer Power Setting**

Cash drawer can be set to provide power to your serial device. The voltage can be set to +12V or +19V by setting the Android APPS.

APPS WIDD	GETS						
1	i <b>ð</b> i iði			- =	100	<i>(</i>	
2D Scanner tea	adbSwitch BootUpOnOff	T Browser	Cactus Player	Calculator	Calendar	Calibration	
	🕜   👘	- 4		<b></b>		<u>_</u>	
CashDrawerC.	Clock ComPowerS	w CPU Prime Be	Diagnostic	DigitalPerson.	Downloads	Email	
<b>6</b>						I	
Gallery H-	-patternTest HamburgerD	e. IBTControl	LCMTest	LogcatEnabler	Messaging	MiscFunction	
CEIDEUER Movie Studio	Music OI File Mana	People	Rotate	SDCardTester	Search	Serial Port AP.	
	n star		angenery .				
Settings So	und Record. Speaker Te	tt SpeedTest	StabilityTest v	System Updat.	TeamViewer.	Test Your And	
						<i>^</i>	
er APPS and	double cl	ick on <b>Ca</b>	ashDra	werCor	itroi 1.	0.	
Pr APPS and	double cl	ick on <b>Ca</b>	ashDra	werCor	itrol 1.	0.	
er APPS and	double cl	ick on <b>Ca</b>	ashDra	werCor	itrol 1.	0.	
er APPS and CH CashDrawerControl	double cl	ick on Ca	ashDra step1: click to	"on" for Cash I	Drawer enable	0.	
er APPS and H CashDrawerControl Channel switch Power switch	double cl	12V 0 19V	step1: click to	"on" for Cash I	I <b>TFOI 1.</b> Drawer enable 12 cash drawer	<b>O.</b> power to 12 or 1!	)V
er APPS and CH CashDrawerControl Channel switch Power switch CD0 switch on tim	double cl 1.0 OFF None ( 100 ms	ick on <b>C</b> a	step1: click to	"on" for Cash I	<b>ITTOL L</b> . Drawer enable 12 cash drawer	<b>O.</b>	ν
er APPS and H CashDrawerControl Channel switch Power switch CD0 switch on tim	double cl	12V () 19V	step1: click to	"on" for Cash I	I <b>TTOI L</b> . Drawer enable 12 cash drawer	D.	λ
er APPS and H CashDrawerControl Channel switch Power switch CD0 switch on tim CD0 Status	double cl	12V 0 19V	step1: click to	"on" for Cash I	I <b>TTOI L</b> . Drawer enable 12 cash drawer	D.	γv
er APPS and CH CashDrawerControl Channel switch Power switch CD0 switch on tim CD0 Status	double cl 1.0 OFF None 100 ms CLOSE Open CD0	12V 0 19V	step1: click to	"on" for Cash I	I <b>TTOI L</b> . Drawer enable 1g cash drawer	D.	γ
er APPS and CH CashDrawerControl Channel switch Power switch CD0 switch on tim CD0 Status	double cl 1.0 OFF None ( 100 ms CLOSE Open CD0	12V 0 19V	step1: click to	"on" for Cash I	I <b>TTOI L</b> . Drawer enable 12 cash drawer	D.	λ
er APPS and CH CashDrawerControl Channel switch Power switch CD0 switch on tim CD0 Status	double cl 1.0 OFF None ( 100 ms CLOSE Open CD0	12V 0 19V	step1: click to	"on" for Cash I	I <b>TTOL L</b>	O.	γ
er APPS and CH CashDrawerControl Channel switch Power switch CD0 switch on tim CD0 Status	double cl 1.0 OFF None 100 ms CLOSE Open CDO	12V 0 19V	step1: click to	"on" for Cash I	I <b>TTOL 1.</b> Drawer enable g cash drawer	рожет to 12 ог 19	v
er APPS and H CashDrawerControl Channel switch Power switch CD0 switch on tim CD0 Status	double cl 1.0 I.0 None ( None ( CLOSE Open CDO	ick on <b>C</b> a	step1: click to	"on" for Cash I	I <b>TTOI 1</b> .	O.	γ

- 2. To enable the power, click the icon to turn the power switch on.
- 3. Select +12V or +19V for cash drawer power.

# **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 (Andrioid driver is included in the OS).

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".