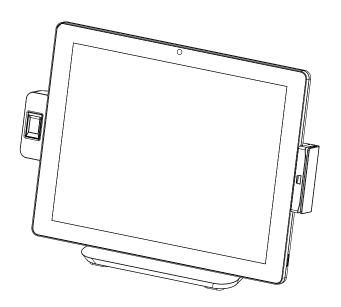
USER MANUAL

VERSION 1.0 September 2017

POS455 Hardware System



Copyright 2017 All Rights Reserved Manual Version 1.0

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

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

TRADEMARK

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

Safety

IMPORTANT SAFETY INSTRUCTIONS

- 1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
- 2. Read these instructions carefully. Save these instructions for future reference.
- 3. Follow all warnings and instructions marked on the product.
- 4. Do not use this product near water.
- 5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
- 7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- 8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- 9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

C E CE MARK

This device complies with the requirements of the EEC directive 2014/30/EU with regard to "Electromagnetic compatibility" and 2014/35/EU "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

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 | Initial release | September 2017 |

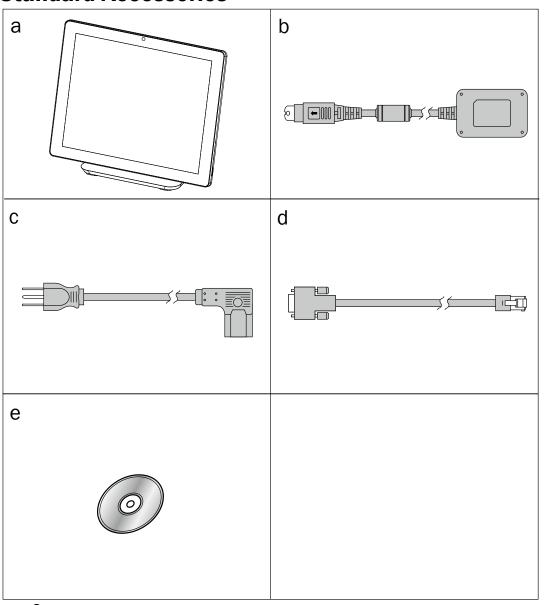
Table of Contents

| 1. | Packing List | 1 |
|----|---|----------------|
| | 1-1. Standard Accessories | 1 |
| | 1-2. Optional Accessories | 2 |
| | | |
| 2 | System View | 2 |
| 2. | 9 | |
| | 2-1. Front & Side View | |
| | 2-2. Rear View | |
| | 2-3. IO Ports View | |
| | 2-4. System Dimensions | 5 |
| | | |
| 3. | System Assembly & Disassembl | y 6 |
| | 3-1. Disassemble the Stand | 6 |
| | 3-2. Remove the Cable Cover | 6 |
| | 3-3. Install the Power Adapter | |
| | 3-4. Replace HDD | 7 |
| | | |
| 4. | Peripheral Installation | 8 |
| | 4-1. Install the MSR Module | 8 |
| | 4-2. Install the Fingerprint Module | |
| | 4-3. Install the iButton Module | |
| | 4-4. Install the Power Box | |
| | 4-5. Install the Customer Display | |
| | 4-6. Install the Second Display | |
| | 4-7. Cash Drawer Installation | 1 4 |

| 5. | Spec | ification | 16 |
|-----------|----------|---------------------------|----|
| 6. | Confi | guration | 18 |
| | 6-1. D36 | 6 Motherboard | 18 |
| | | 1. Motherboard Layout | |
| | | 2. Connectors & Functions | |
| | 6-1- | 3. Jumper Setting | 20 |
| | | 6U Motherboard | |
| | 6-2- | 1. Motherboard Layout | 22 |
| | 6-2- | 2. Connectors & Functions | 23 |
| | 6-2- | 3. Jumper Setting | 24 |
| | | | |
| Apı | pendix | x: Drivers Installation | 26 |

1. Packing List

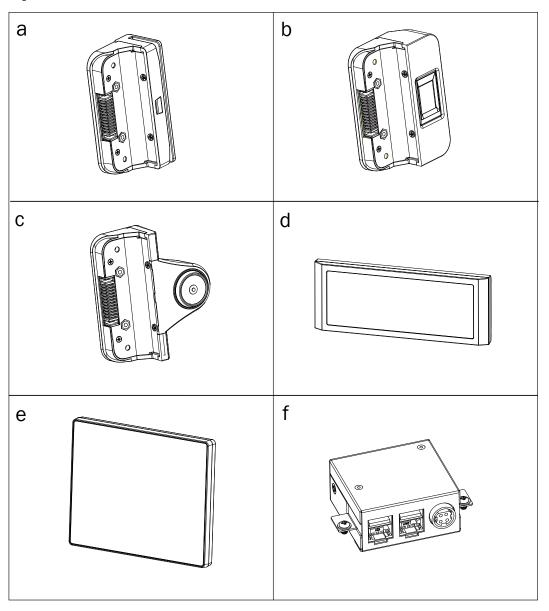
1-1. Standard Accessories



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

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

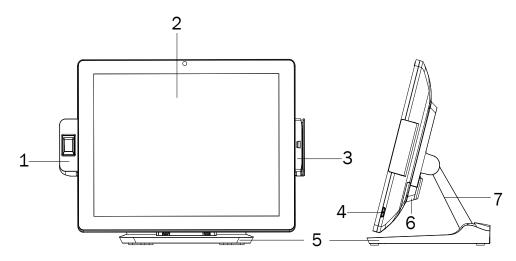
1-2. Optional Accessories



- a. MSR module
- b. Fingerprint module
- c. iButton module
- d. Customer display
- e. 2nd display
- f. Power box (custom-made) (powered USB 12V / powered USB 24V / DC jack)

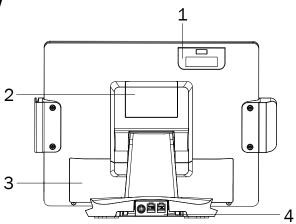
2. System View

2-1. Front & Side View



| No. | Description | |
|-----|----------------------|--|
| 1 | Fingerprint (option) | |
| 2 | Touch screen | |
| 3 | MSR (option) | |
| 4 | Power button | |
| 5 | Stand | |
| 6 | VESA bottom cover | |
| 7 | Stand front cover | |

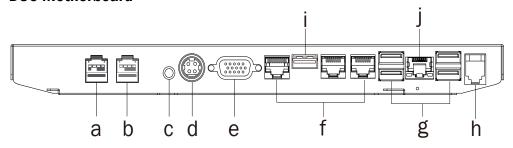
2-2. Rear View



| No. | Description | | |
|-----|-------------------------|--|--|
| 1 | Dummy door of the HDD | | |
| 2 | VESA top cover | | |
| 3 | Cable cover | | |
| 4 | Power box (custom-made) | | |

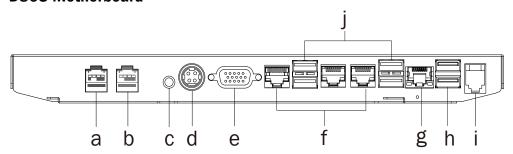
2-3. IO Ports View

D36 Motherboard



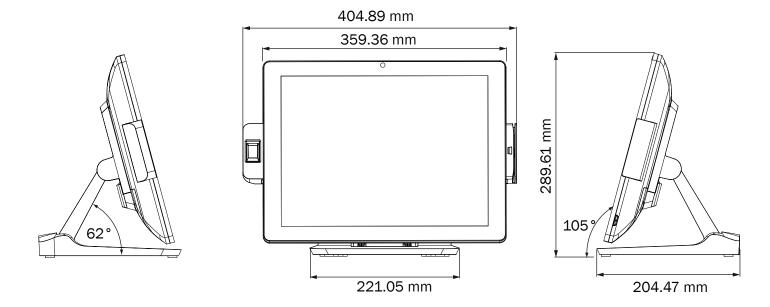
| No. | Description | | |
|-----|----------------------------------|--|--|
| а | Powered USB 24V (option) | | |
| b | Powered USB 12V (option) | | |
| С | Power button | | |
| d | DC 19V in | | |
| е | VGA | | |
| f | COM 1, 2, 3 (from right to left) | | |
| g | USB 2.0 x 4 | | |
| h | Cash drawer | | |
| i | USB 3.0 x 1 | | |
| j | LAN | | |

D86U Motherboard



| No. | Description | | |
|-----|----------------------------------|--|--|
| а | Powered USB 24V (option) | | |
| b | Powered USB 12V (option) | | |
| С | Power button | | |
| d | DC 19V in | | |
| е | VGA | | |
| f | COM 1, 2, 3 (from right to left) | | |
| g | LAN | | |
| h | USB 2.0 x 2 | | |
| İ | Cash drawer | | |
| j | USB 3.0 x 4 | | |

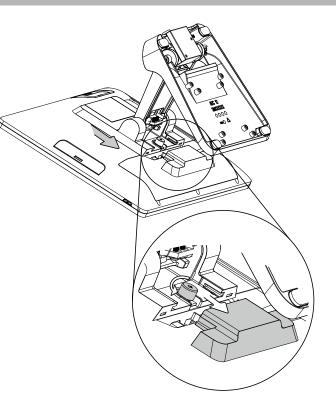
2-4. System Dimensions



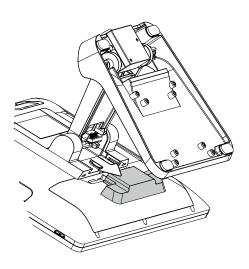
3. System Assembly & Disassembly

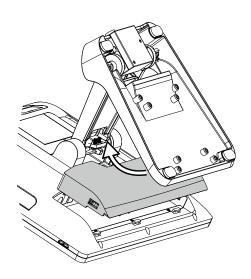
3-1. Disassemble the Stand

- 1. Slide the VESA bottom cover outwards.
- 2. Loosen the thumb screw (x1) and slide the stand towards the IO panel to release it from the system.
- 3. Reverse the steps above to attach stand to the system.



3-2. Remove the Cable Cover

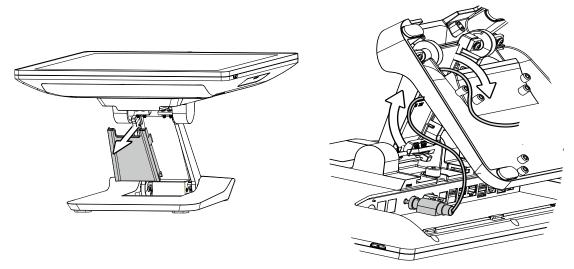




- 1. Slide the VESA bottom cover outwards.
- 2. Pull the cable cover upwards to release it from the system.

3-3. Install the Power Adapter

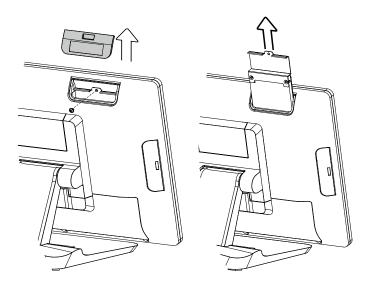
The system is equipped with a 65W or 90W power adapter. Please follow the steps to install the power adapter.



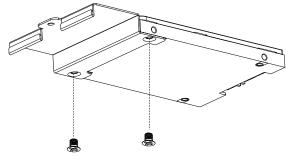
- 1. The stand is designed to allow for clean cable management. There is a cable channel through the stand, which has a quick access cover. Please pull the front cover of the stand outwards.
- 2. Place the system face down. Making sure not to scrath the touchscreen.
- 3. Connect the power adapter to the 19V DC IN port and then route the cable as shown in the picture.
- 4. Replace the front cover.

3-4. Replace HDD

1. Remove the HDD dummy cover retaining a screw and sliding the drive out.



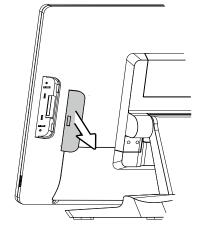
2. Remove the screws (x2) that fix the HDD to the bracket.



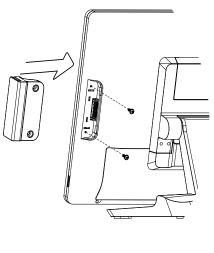
4. Peripheral Installation

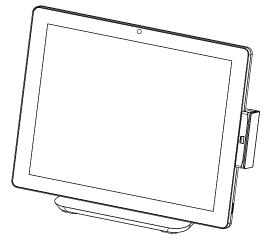
4-1. Install the MSR Module

1. Remove the dummy cover first.



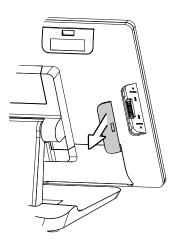
2. Insert the MSR module in place and fasten the screws (x2) on the back to secure the module.



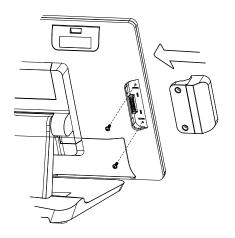


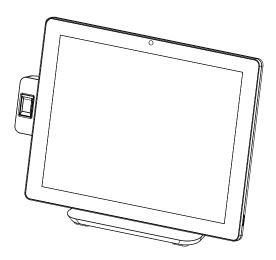
4-2. Install the Fingerprint Module

1. Remove the dummy cover first.



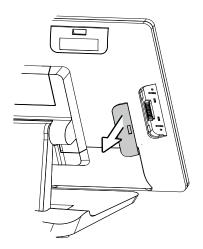
2. Insert the Fingerprint module in place and fasten the screws (x2) on the back to secure the module.



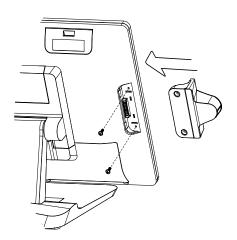


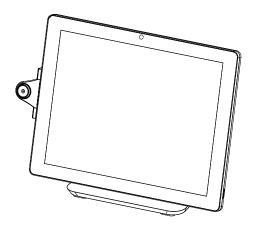
4-3. Install the iButton Module

1. Remove the dummy cover first.

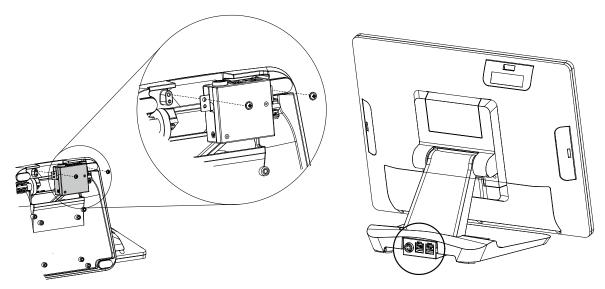


2. Insert the iButton module in place and fasten the screws (x2) on the back to secure the module.





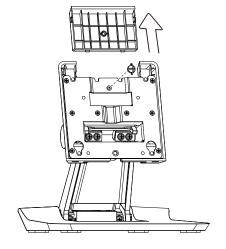
4-4. Install the Power Box



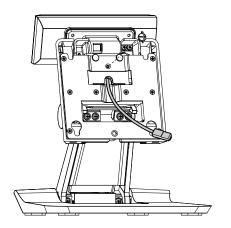
- 1. Lay down system to access the bottom of the stand.
- 2. Attach the power box and then fasten two screws to secure it to the system.

4-5. Install the Customer Display

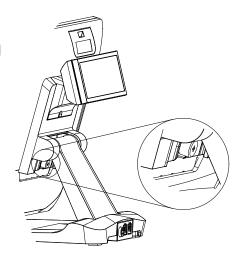
- 1. Follow the steps in Chapter 3-1 to diassemble the stand from the LCD panel.
- 2. Remove the thumb screw (x1) from the VESA top cover and then pull the cover up.



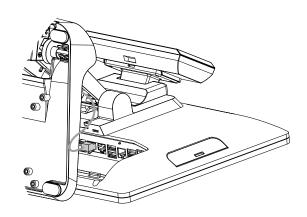
- 3. Attach the LCM module to system by fastening the thumb screw (x1).
- 4. Route the RJ-45 cable through the hole of the stand as picture shown.

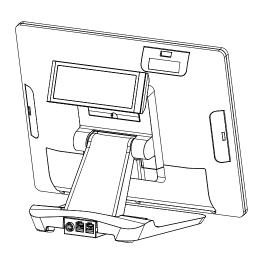


5. Attach the stand to the LCD panel and fasten the thumb screw (x1).

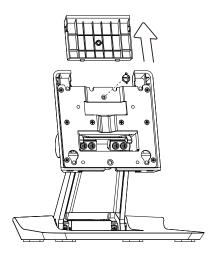


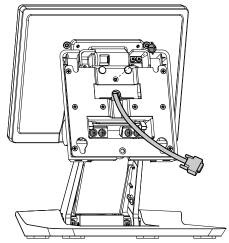
- Connect the RJ-45 cable to COM port on the systems IO panel.
 Make sure the system is powered off.
- * Please note the cable cover and the stand front cover (refer to Chapter 2-1 and 2-2) have to be removed before routing the cable.



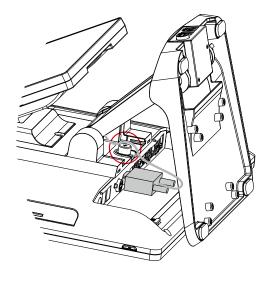


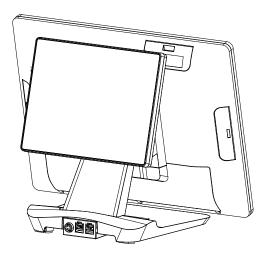
4-6. Install the Second Display





- 1. Follow the steps in Chapter 3-1 to diassemble the stand from the LCD panel.
- 2. Remove the thumb screw (x1) from the VESA top cover and then pull the cover up.
- 3. Attach the 8' 2nd display module to system by fastening the thumb screw (x1).
- 4. Route the 2nd display cable through the hole of the stand as picture shown.
- 5. Attach the stand to the LCD panel and fasten the thumb screw (x1).
- 6. Connect the 2nd display cable to VGA port on the systems IO panel. Make sure the system is powered off.
- Please note the cable cover and the stand front cover (refer to Chapter 2-1 and 2-2) have to be removed before routing the cable.

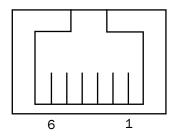




4-7. Cash Drawer Installation

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 | Cash drawer 2 In | |
| 2 | Cash drawer 1 Out | |
| 3 | Cash drawer 1 In | |
| 4 | 12V / 19V (or 24V) | |
| 5 | Cash drawer 2 Out | |
| 6 | GND | |

Cash Drawer Controller Register

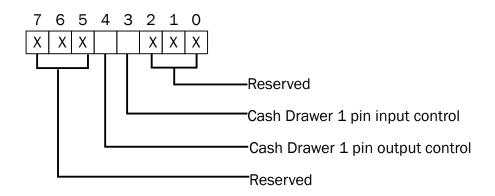
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 0x482h

Attribute: Read / Write

Size: 8bit

| BIT | BIT7 | BIT6 | BIT5 | BIT4 | BIT3 | BIT2 | BIT1 | BIT0 |
|-----------|------|----------|------|---------|--------|------|----------|------|
| Attribute | | Reserved | | CD1 Out | CD1 In | | Reserved | |



Bit 7: Reserved

Bit 6: Reserved

Bit 5: Reserved

Bit 4: Cash Drawer 1 pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 3: Cash Drawer 1 pin input control.

= 1: the Cash Drawer closed or no Cash Drawer

= 0: the Cash Drawer opened

Bit 2: Reserved

Bit 1: Reserved

Bit 0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

| Command | Cash Drawer | |
|----------|----------------|--|
| 0 482 10 | Opening | |
| 0 482 00 | Allow to close | |

- ► Set the I/O address 482h bit4 =1 for opening Cash Drawer by "DOUT bit0" pin control.
- ► Set the I/O address 482h bit4 = 0 for allow close Cash Drawer.

| Command | Cash Drawer | |
|---------|--------------|--|
| l 482 | Check status | |

- ► The I/O address 482h bit3 =1 mean the Cash Drawer is opened or not exist.
- ► The I/O address 482h bit3 = 0 mean the Cash Drawer is closed.

5. Specification

| Model Name | P0S455 | | | | |
|------------------------|--|---|--|--|--|
| Mainboard | D36 | D86U | | | |
| | Intel Bay Trail CPU BGA-1170 22nm | Intel SKYLAKE U CPU CPUBGA-1296 14nm | | | |
| CPU support | Intel Bay Trail CPU | Celeron 3955U 2GHz, LLC 2M (15W,EIA) | | | |
| ого зарроге | Celeron J1900 2.4GHz, L2 2M | I3-6100U 2.3GHz, LLC 3M(15W, EIA) | | | |
| | | i5-6300U 2.4GHz, LLC 3M (15W,EIA) | | | |
| System memory | 1x DDR3 SO-DIMM up to 8GB, | 1x DDR3 SO-DIMM up to 8GB, | | | |
| | 1066/1333MHz | 1600MHz | | | |
| Graphic memory | Intel HD graphic DX11 and OCL1.1 | Intel HD Graphic (Gen 9) DX12 and OCL4.2 | | | |
| LCD Touch Panel | 1 | 45,150 (00) | | | |
| LCD size | 15" TFT LED Panel (LVDS) | 15" LED (eDP) | | | |
| Brightness (cd/m²) | | s / 350 nits | | | |
| Maximal resolution | | 4 x 768 | | | |
| Touch screen type | | esistive & AUO P-CAP) (option) | | | |
| Tilt angle | 0 | ~90° | | | |
| Storage | | | | | |
| Storage | | SATA HDD bay | | | |
| FlashMemory | Option SATA | SSD flash card | | | |
| Expansion | | | | | |
| Mini PCI-E socket 1 | | | | | |
| m.2 | 1 (M.2 2230 or M.2 1216) | | | | |
| I/O Ports | | | | | |
| USB port | 5 (1 x USB3.0/2.0 ; 4 x USB2.0) 6 (4 x USB3.0/2.0 ; 2 x USB2.0) | | | | |
| Serial / COM | 3 (RJ45 type, COM1 & COM2 0V/5V, COM3 0V/12V, power enabled by BIOS) | | | | |
| LAN (10/100/1000) | 1 x RJ45 | | | | |
| VGA | 1 (12V powere | d enable by BIOS) | | | |
| Cash drawer | 1 x RJ11 (12V /24V) | | | | |
| DC jack | 1 | | | | |
| Power switch | | 1 | | | |
| Expansion I/O | | | | | |
| Powered USB | 2 (24V powered USB x | 1 / 12V powered USB x1) | | | |
| Audio | | 1 | | | |
| Power | | | | | |
| | default 65W /19V | default 90W / 19V | | | |
| Power adapter | optional 120W /19V when powered USB | optional 120W /19V when powered USB | | | |
| | module bundled | module bundled | | | |
| Peripherals (optional) | | | | | |
| MSR | 1 (USB) | | | | |
| Fingerprint | | (USB) | | | |
| iButton | 1 (USB) | | | | |
| Second display | 8" LED Second display, resolution 800 *600 | | | | |
| Customer display | Flush mount LCM display 2 x 20 characters (COM) | | | | |
| Speaker | 2 x 2W | | | | |

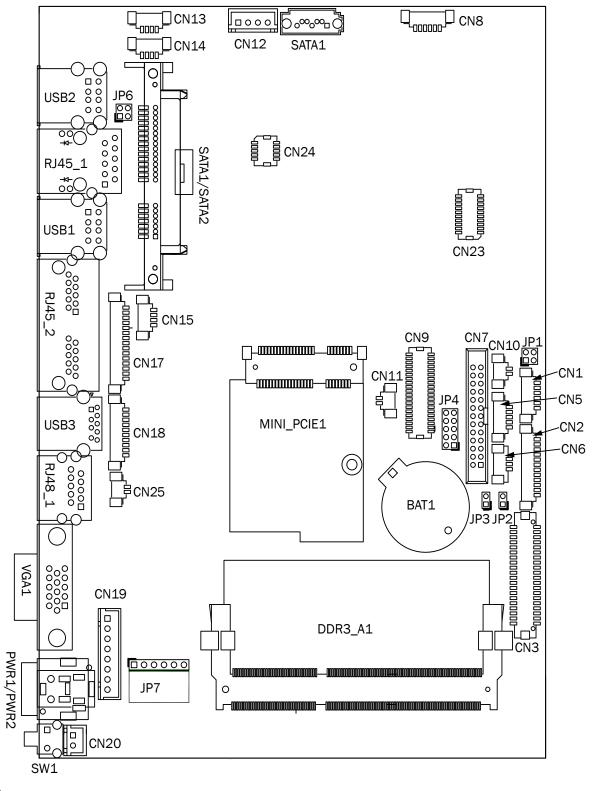
| Model Name | P0\$455 | | | | |
|-----------------------|--|------------------------------------|--|--|--|
| Mainboard | D36 | D86U | | | |
| Certificate | | | | | |
| EMC & Safety | FCC, Class A, CE, LVD | | | | |
| ESD | 4 kV Contact discharge, 8 kV Air discharge | | | | |
| Environment | | | | | |
| Sealing | IP54 (front side) | | | | |
| 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) | 359.36 x 204.47 x 289.61mm | | | | |
| Weight | 4.3kg | | | | |
| | Windows 7, POSReady7, Windows | Windows 10 IOT Enterprise (64-bit) | | | |
| OS cupported | Embedded 8.1 Industry, Windows 10 IOT | Linux: Fedora 25 | | | |
| OS supported | Enterprise, Linux Kernel | Ubuntu16.10 Desktop | | | |
| | 3.8 or above | Kernel 4.7 above | | | |

^{*} This specification is subject to change without prior notice.

6. Configuration

6-1. D36 Motherboard

6-1-1. Motherboard Layout



6-1-2. 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 | |
| SATAO/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 | |

6-1-3. Jumper Setting

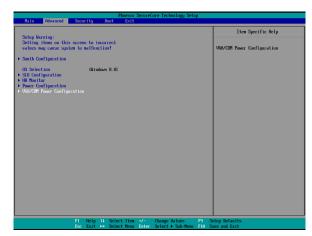
Inverter Selection

| Function | JP1 | | |
|----------|------------|--|--|
| ▲LED | 1 3 2 4 | | |
| CCFL | 1 3 2 4 | | |

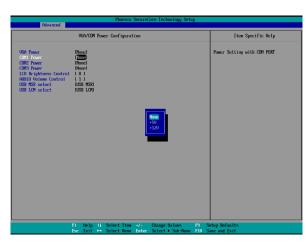
COM1/COM2/COM3 Power Setting

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.

- 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 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.



▲ = Manufacturer Default Setting

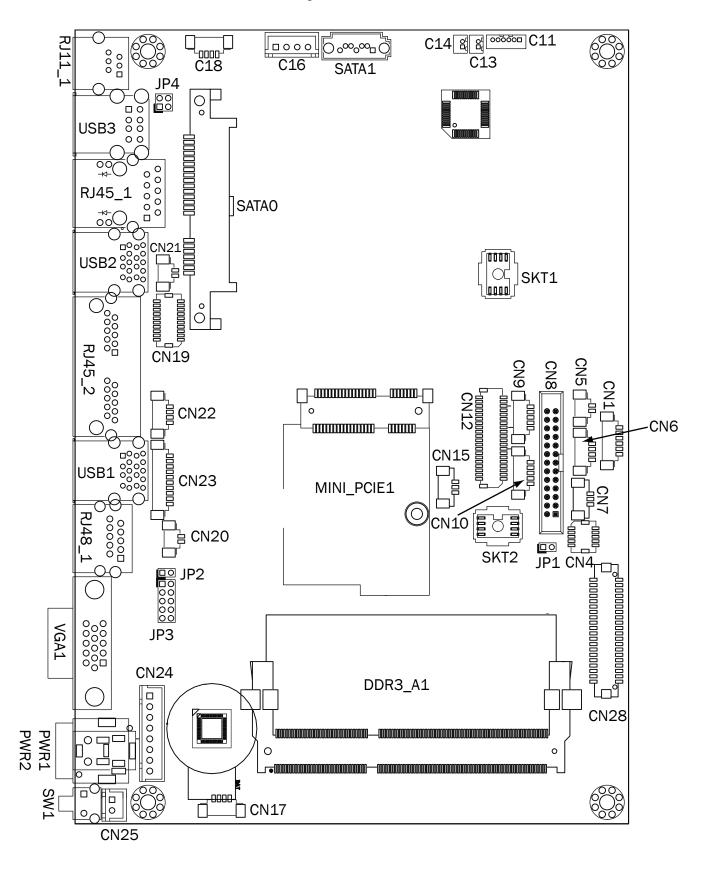
LCD ID Setting

| | עו ט Setting | | | | | |
|--------------------|--------------|------|---------|---------------|-------------------------|--|
| Panel# | Resolution | LVDS | | Output | JP3 | |
| ranci n | | Bits | Channel | Interface | JF3 | |
| 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 | 1 3 5 7 9 2 4 6 8 10 | |
| 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 | 1 3 5 7 9 2 4 6 8 10 | |
| 8 | 1280 x 1024 | 24 | Dual | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 | |
| 9 | 1440 x 900 | 24 | Dual | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 | |
| 10 | 1028 x 800 | 18 | Dual | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 | |
| 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 | |

^{1 2} Jumper open 2 Jumper short

6-2. D86U Motherboard

6-2-1. Motherboard Layout



6-2-2. Connectors & Functions

| Connector | Function |
|------------|-----------------------------|
| CN1 | Front I/O board |
| 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 |
| CN28 | 51 pin connector |
| CN29 | eDP 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 |
| 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 |
| | Tage: a.g., barrar ager., B |

6-2-3. Jumper Setting

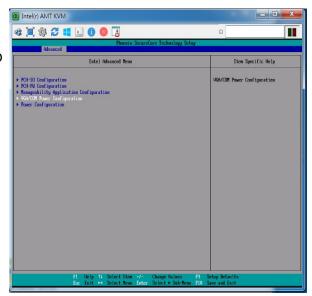
Cash Drawer Power Setting

| Function | JP4 | | |
|----------|------------|--|--|
| ▲ +19V | 1 3 4 | | |
| +12V | 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.

- 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
 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 | L\ | /DS | Output | JP3 |
|--------------------|-------------|------|---------|---------------|-------------------------|
| ranei n | Resolution | Bits | Channel | Interface | JFO |
| 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 | 1 3 5 7 9 2 4 6 8 10 |
| 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 | 1 3 5 7 9 2 4 6 8 10 |
| 8 | 1280 x 1024 | 24 | Dual | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 |
| 9 | 1440 x 900 | 24 | Dual | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 |
| 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 |

1 Jumper open 1 Jumper short

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".