



EVO TP6

All in One POS Terminal

User Manual

v1.0

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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.

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	June 2018

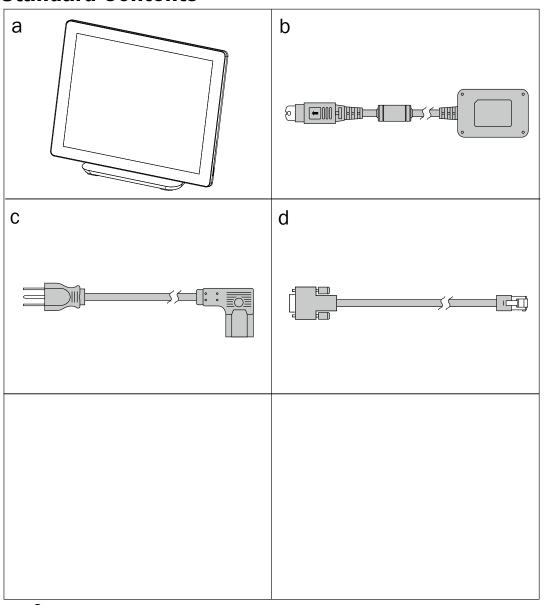
Table of Contents

1.	Packing List	1
	1-1. Standard Contents	1
	1-2. Optional Accessories	2
2.	System View	3
	2-1. Front & Side View	
	2-2. Rear View	
	2-3. IO Ports View	
	2-4. System Dimensions	
3.	System Assembly & Disassembly	, 6
J .	System Assembly & Disassembly	
	3-1. Disassemble the Stand	
	3-2. Remove the Cable Cover	
	3-3. Install the Power Adapter	
	3-4. Replace HDD	/
4.	Peripheral Installation	8
	4-1. MSR Installation	
	4-2. Fingerprint Reader Installation	
	4-3. 2-Line Customer Display Installation	
	4-4. Second Display Installation	
	4-5. Cash Drawer Installation	12

5.	Specification	14
6.	Configuration	16
	6-1. D36 Motherboard	16
	6-1-1. Motherboard Layout	
	6-1-2. Connectors & Functions	17
	6-1-3. Jumper Setting	
	6-2. D86U Motherboard	20
	6-2-1. Motherboard Layout	
	6-2-2. Connectors & Functions	21
	6-2-3. Jumper Setting	22

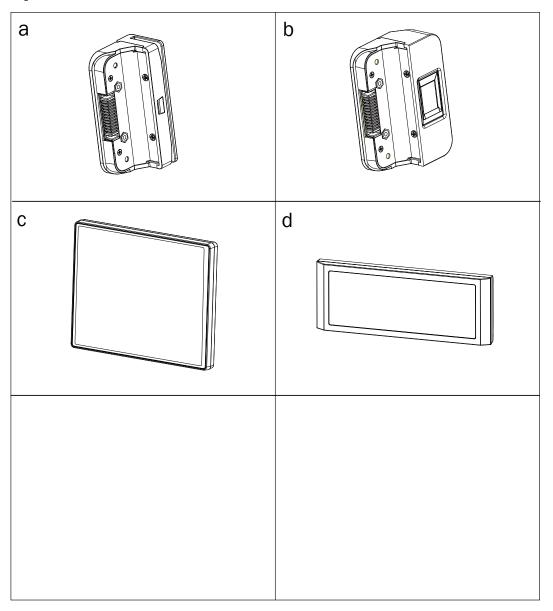
1. Packing List

1-1. Standard Contents



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

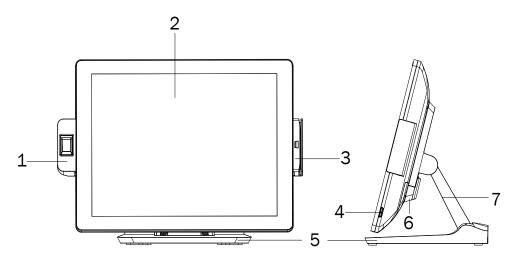
1-2. Optional Accessories



- a. MSR
- b. Fingerprint reader
- c. 8.4" 2nd display
- d. 2-line Customer display

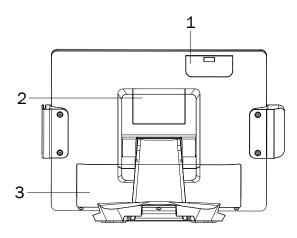
2. System View

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	

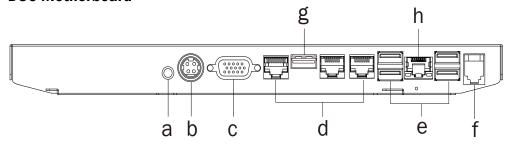
2-2. Rear View



No.	Description	
1	HDD cover	
2	VESA top cover	
3	Cable cover	

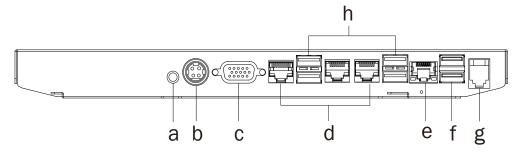
2-3. IO Ports View

D36 Motherboard



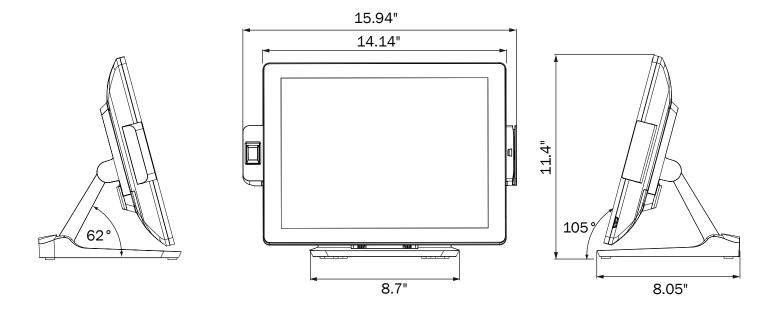
No.	Description	
а	Power button	
b	DC 19V in	
С	VGA	
d	COM 1, 2, 3	
е	USB 2.0 x 4	
f	Cash drawer	
g	USB 3.0 x 1	
h	LAN	

D86U Motherboard



No.	Description	
а	Power button	
b	DC 19V in	
С	VGA	
d	COM 1, 2, 3	
е	LAN	
f	USB 2.0 x 2	
g	Cash drawer	
h	USB 3.0 x 4	

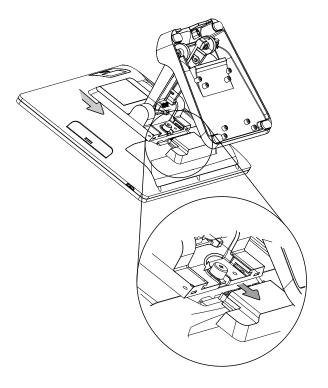
2-4. System Dimensions



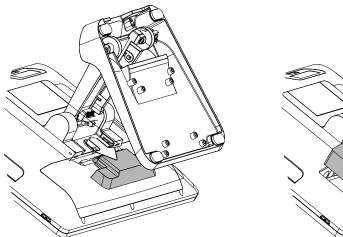
3. System Assembly & Disassembly

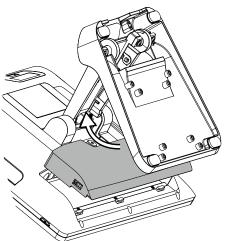
3-1. Disassemble the Stand

- 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

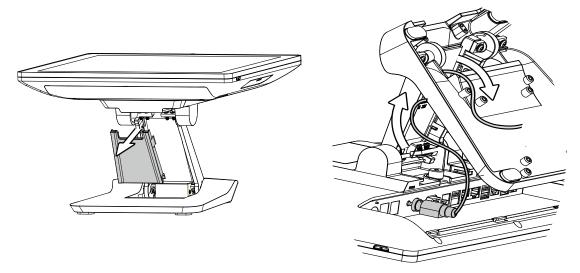




- 1. Slide the VESA bottom cover outwards.
- 2. Pull the cable cover upwards to release it from the system.

3-3. Install the Power Adapter

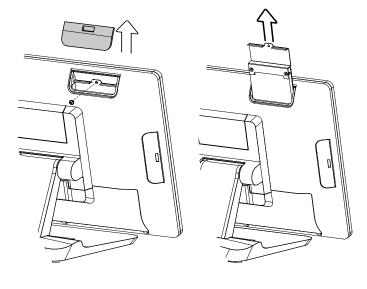
The system is equipped with a 65W or 90W power adapter. Please follow the steps to install the power adapter.



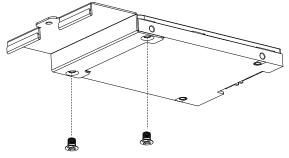
- 1. The stand is designed to allow for clean cable management. There is a cable channel through the stand, which has a quick access cover. Please pull the front cover of the stand outwards.
- 2. Place the system face down. Making sure not to scratch the touchscreen.
- 3. Connect the power adapter to 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.

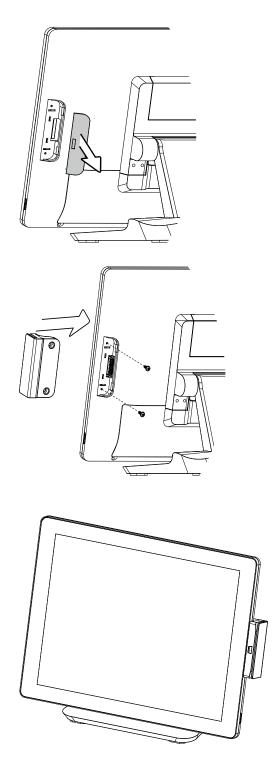


4. Peripheral Installation

4-1. MSR Installation

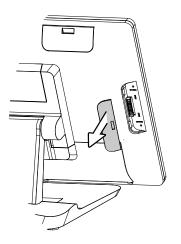
1. Remove the cover.

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

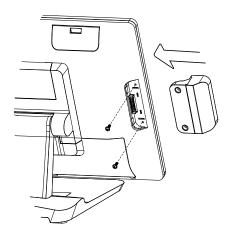


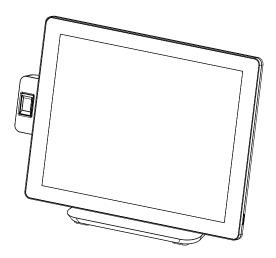
4-2. Fingerprint Reader Installation

1. Remove the cover.

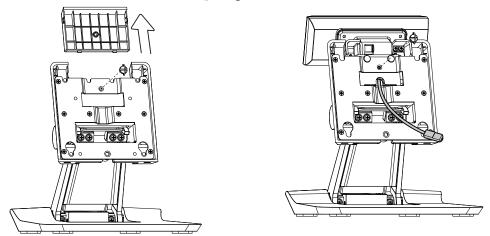


2. Insert the Fingerprint module in place and fasten the screws (x2) on the back to secure the module.

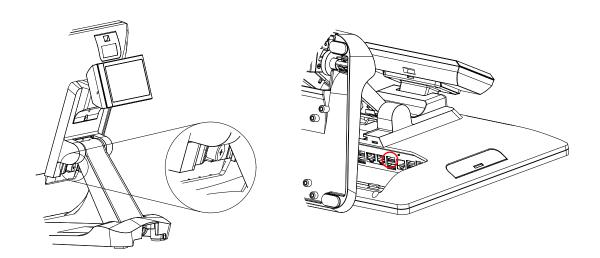




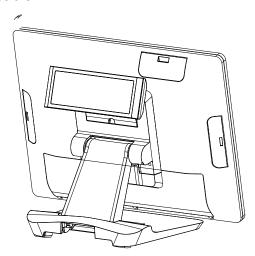
4-3. 2-Line Customer Display Installation



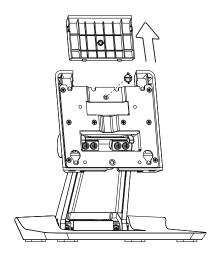
- 1. Follow the steps in Chapter 3-1 to diassemble the stand from the LCD panel.
- 2. Remove the thumb screw (x1) from the VESA top cover and then pull the cover up.
- 3. Attach the LCM module to system by fastening the thumb screw (x1).
- 4. Route the cable through the hole of the stand as picture shown.

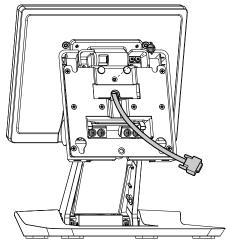


- 5. Attach the stand to the LCD panel and fasten the thumb screw (x1).
- 6. Connect the USB cable to a USB port on the systems IO panel.
- * Please note the cable cover and the stand front cover (refer to Chapter 2-1 and 2-2) have to be removed before routing the cable.

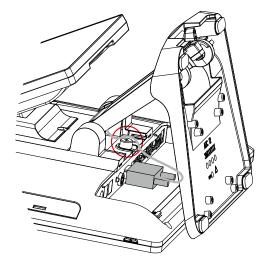


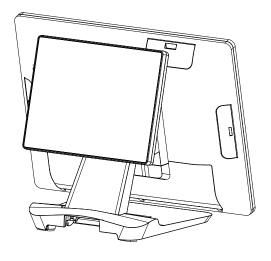
4-4. Second Display Installation





- 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 8.4" 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.

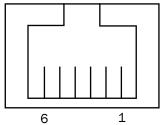




4-5. Cash Drawer Installation

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation. NOTE: POS software must be specially programmed to work with the built in cash drawer port.

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

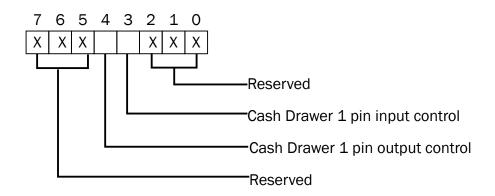
The Cash Drawer Controller uses one I/O address to control the Cash Drawer.

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: Open the Cash Drawer

= 0: Allow Cash Drawer to close

Bit 3: Cash Drawer 1 pin input control.

= 1: Cash Drawer closed or no Cash Drawer

= 0: 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 from the command line

Command	Cash Drawer	
0 482 10	Open	
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 to allow closing the Cash Drawer.

Command		Cash Drawer	
I 48	2	Check status	
► The I/O address 482h bit3 =1 Cash Drawer is opened or does not exist.			
The I/O address 482h bit3 =0 Cash Drawer is closed			

5. Specification

Model Name	EVO TP6			
Mainboard	D36	D86U		
CPU support	Intel Bay Trail CPU BGA-1170 22nm Intel Bay Trail CPU Celeron J1900 2.4GHz, L2 2M	Intel SKYLAKE U CPU CPUBGA-1296 14nm Pentium 4405U LLC 2M (15W,EIA) I3-6100U 2.3GHz, LLC 3M(15W, EIA) i5-6200U 2.4GHz, LLC 3M (15W,EIA)		
System memory	1x DDR3 SO-DIMM up to 8GB, 1066/1333MHz	1x DDR3 SO-DIMM up to 8GB, 1600MHz		
Graphic memory	Intel HD Graphics DX11 and OCL1.1	Intel HD Graphics (Gen 9) DX12 and OCL4.2		
LCD Touch Panel				
LCD size	15" TFT LED Panel (LVDS)	15" LED (eDP)		
Brightness (cd/m²)	250 nits	350 nits		
Maximal resolution		24 x 768		
Touch screen type		flat PCAP		
Tilt angle	0	0~90°		
Storage				
Storage	1 x 2.5" SATA HDD bay			
FlashMemory	Option SATA SSD flash card			
Expansion				
Mini PCI-E socket	1			
m.2	1 (M.2 223	0 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 OV/5V,	, COM3 0V/12V, power enabled by BIOS)		
LAN (10/100/1000)	1)	x RJ45		
VGA	1 (12V powere	ed enable by BIOS)		
Cash drawer	1 x RJ11	L (12V /24V)		
DC jack		1		
Power switch		1		
Power				
Power adapter	65W / 19V 90W / 19V			
Peripherals (optional)				
MSR	1 (USB)			
Fingerprint	1 (USB)			
Second display	8.4" LED Second display, resolution 800 *600			
Customer display	Flush mount LCM display 2 x 20 characters (COM)			

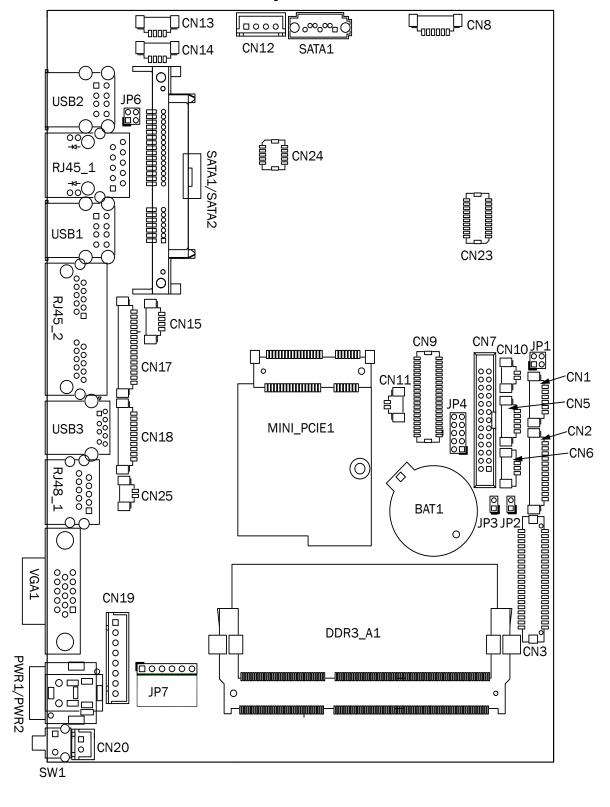
Model Name	EVO TP6				
Mainboard	D36	D86U			
Certificate	<u>.</u>				
EMC & Safety	FCC, Class A, CE, LVD				
ESD	4 kV Contact discharge, 8 kV Air discharge				
Environment					
Sealing	IP54 (front side)				
Operating temperature	32°F~95°F(0°C~35°C)				
Storage temperature	-4°F ~ 140°F (-20°C ~ 60°C)				
Humidity	20% ~ 85% RH non-condensing				
Dimension (W x D x H)	14.14" x 8" x 11.4" (359.36 x 204.47 x 289.61mm)				
Weight	9.5 lb (4.3kg)				
	Windows 7, POSReady7, Windows	Windows 10 IOT Enterprise (64-bit)			
OS supported	Embedded 8.1 Industry, Windows 10 IOT	Linux: Fedora 25			
	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	stem 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		
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

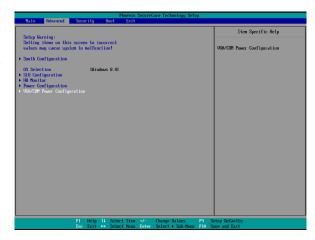
Inverter Selection

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

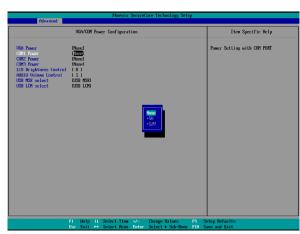
COM1/COM2/COM3 Power Setting

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.

- 1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
- 2. Select the Advanced tab.
- 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

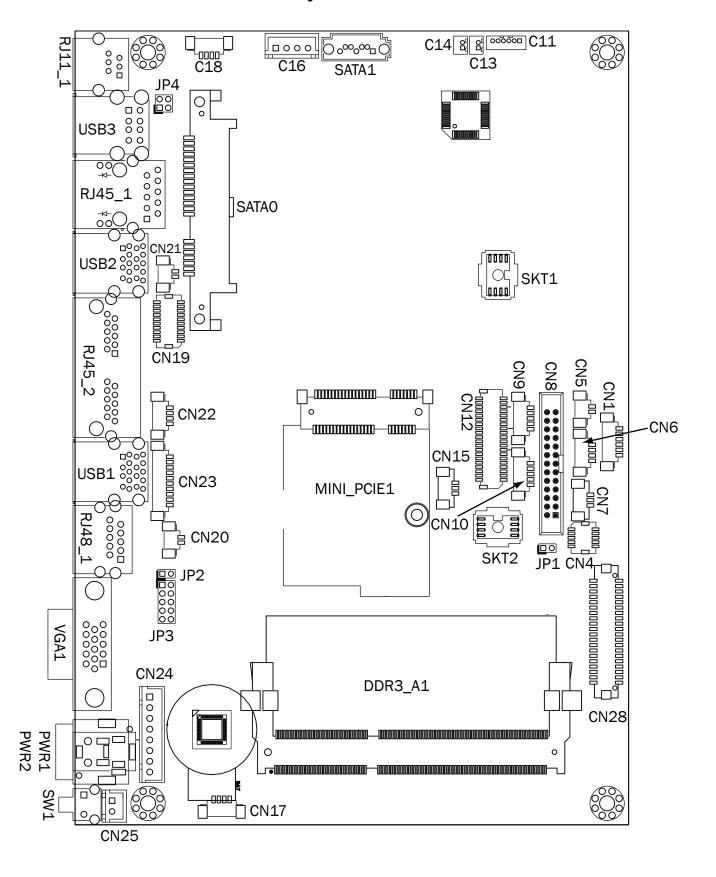
LCD ID Setting

LCD ID 3et		LV	/DS	Output	
Panel#	Resolution	Bits	Channel	Interface	JP3
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

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 CN20 Battery connector CN21 Power LED connector CN22 PS/2 connector CN23 COM5 connector	Connector	Function		
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 CN20 Battery connector CN21 Power LED connector CN21 Power LED connector CN22 PS/2 connector	CN1	Front I/O board		
CN6 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	CN4			
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	CN5	HDD LED 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	CN6	USB connector		
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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	CN8			
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	CN9	·		
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	CN10			
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	CN11			
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	CN12			
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	CN13			
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				
CN16 SATA power connector CN17/18 USB connector CN19 SDR connector CN20 Battery connector CN21 Power LED connector CN22 PS/2 connector	CN15			
CN17/18 USB connector CN19 SDR connector CN20 Battery connector CN21 Power LED connector CN22 PS/2 connector	CN16			
CN20 Battery connector CN21 Power LED connector CN22 PS/2 connector	CN17/18			
CN20 Battery connector CN21 Power LED connector CN22 PS/2 connector	CN19	SDR connector		
CN21 Power LED connector CN22 PS/2 connector				
-,	CN21	*		
	CN22	PS/2 connector		
	CN23	COM5 connector		
CN24 Wide range connector	CN24	Wide range connector		
CN25 Power button connector	CN25			
CN26 LCM connector	CN26	LCM connector		
CN28 51 pin connector	CN28	51 pin connector		
CN29 eDP connector	CN29			
PWR1/PWR2 DC Jack	PWR1/PWR2	DC Jack		
RJ11_1 Cash drawer connector	RJ11_1	Cash drawer connector		
RJ45_1 LAN connector	RJ45 1	LAN connector		
RJ45_2 COM1/ COM2				
RJ48_1 COM3	RJ48_1			
DDR3_A1 DDR3 SO-DIMM				
SATA1 SATA connector				
USB1/USB2 USB3.0				
USB3 USB2.0	USB3			
VGA1 CRT connector	VGA1	CRT connector		
SW1 Power button				
MINI_PCIE1 MINI PCIE				
JP1 Hardware reset	_			
JP2 RTC reset				
JP3 LCD ID setting				
JP4 Cash drawer power setting				

6-2-3. Jumper Setting

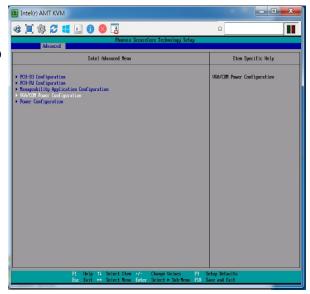
Cash Drawer Power Setting

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

LOD ID Set	.			r	
Panel#	Resolution	LVDS		Output	JP3
Gileiii	1 1 COOTUGOT	Bits	Channel	Interface	51 5
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