

# USER MANUAL

VERSION 1.0 August 2015

**TeosWide 1536**

**TeosWide 1836**

**TeosWide 2136**



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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.



This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”.



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer’s instructions.



### Battery Caution

Risk of explosion if battery is replaced by an incorrectly type. Dispose of used battery according to the local disposal instructions.



### Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 “Materials for fire enclosure” compliant.

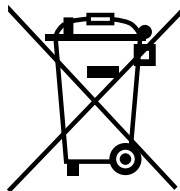
#### 4.7.3.2 Materials for fire enclosures

For MOVABLE EQUIPMENT having a total mass not exceeding 18kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.

For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

## 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	August 2015

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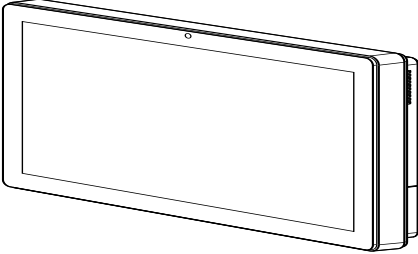
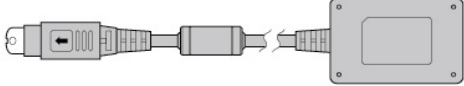



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# 1. Packing List

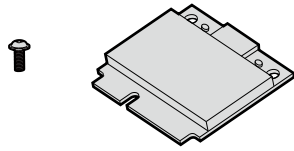
## 1-1. Standard Items

a. 	b. 
c. 	d. 
e. 	

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

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

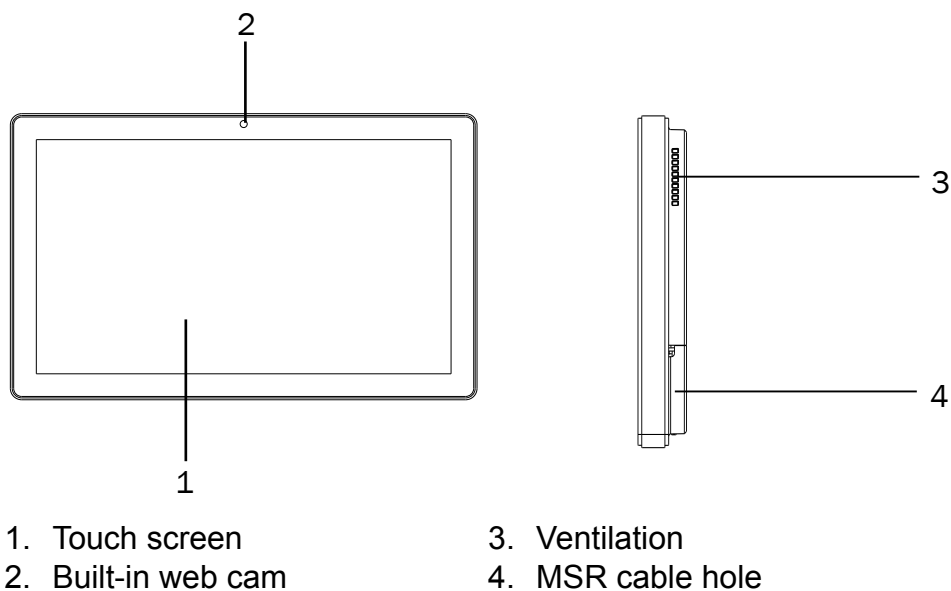
## 1-2. Optional Items



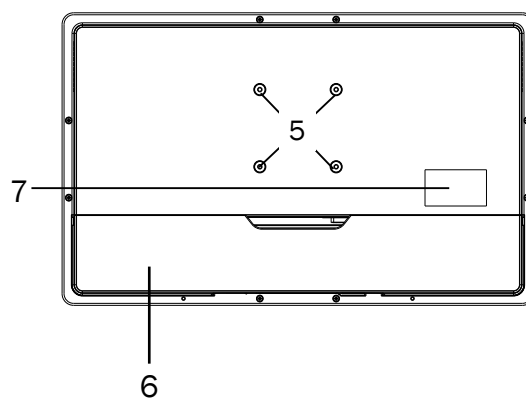
WiFi card kit  
(with internal antenna cable)

## 2. System View

### 2-1. Front & Side View

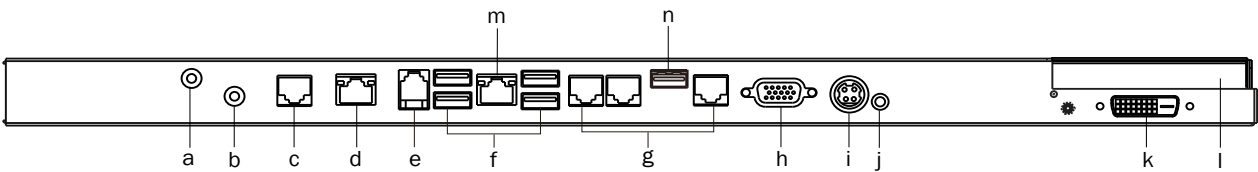


### 2-2. Rear View



# 2-3. I/O view

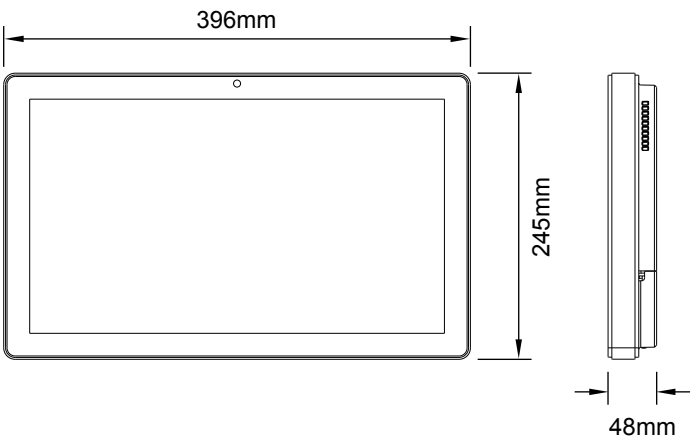
## D36 Motherboard



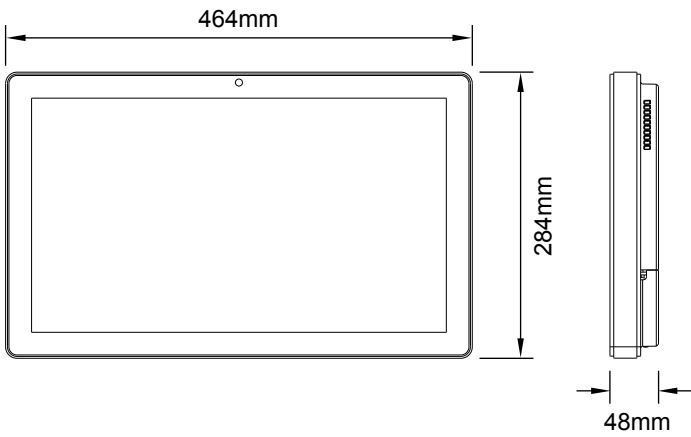
Item No.	Description
a	MIC IN
b	Line out
c	COM4
d	2 <sup>nd</sup> LAN
e	Digital output
f	USB 2.0(x4)
g	COM port 1, 2, 3 (from left to right)
h	VGA
i	DC IN
j	Power button
k	DVI-D (option)
l	HDD slot
m	LAN
n	USB 3.0 (x1)

# 2-4. Dimensions

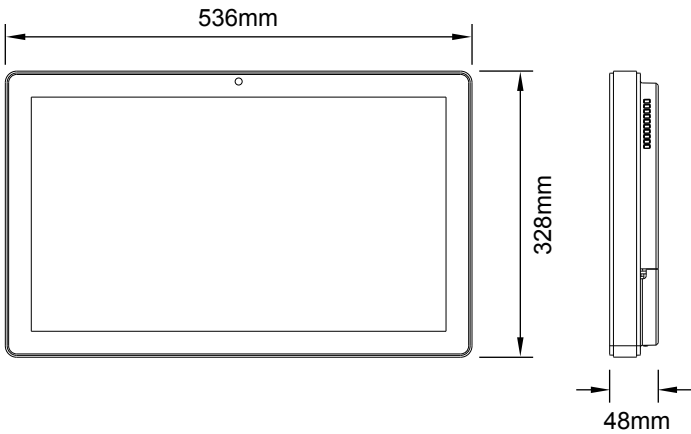
## 2-4-1. 15.6" System



## 2-4-2. 18.5" System



## 2-4-3. 21.5" System

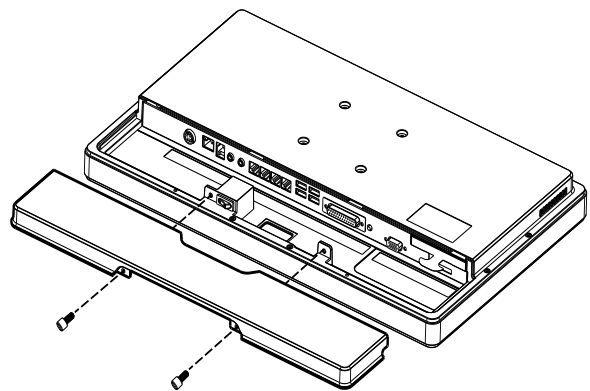


# 3. System Assembly

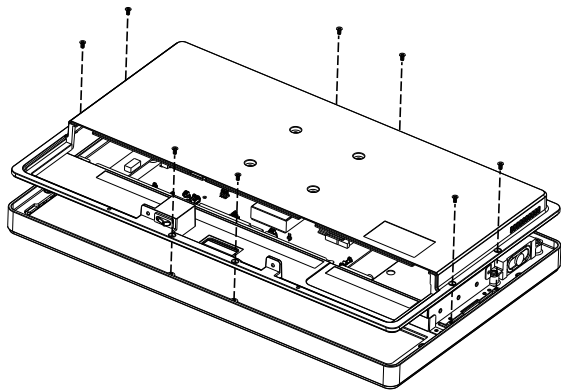
## 3-1. Open the Chassis Cover

The motherboard and RAM module can be replaced by opening the chassis cover, which is located on the back side of the system. Please follow the steps below to open the chassis cover.

1. Turn to the back side of the system and loosen the screws (x2) to release the cable cover first.



2. Loosen the screws (x8) to open the back cover of the system.

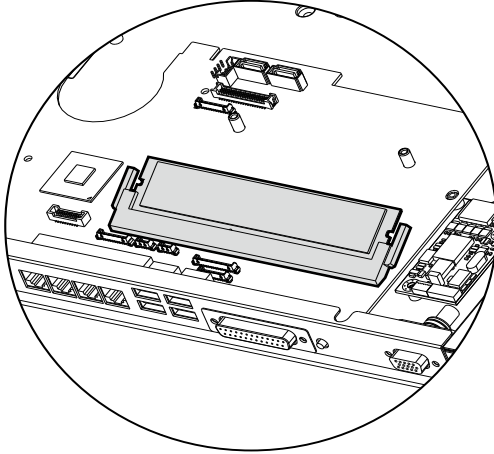


## 3-2. RAM Module Replacement

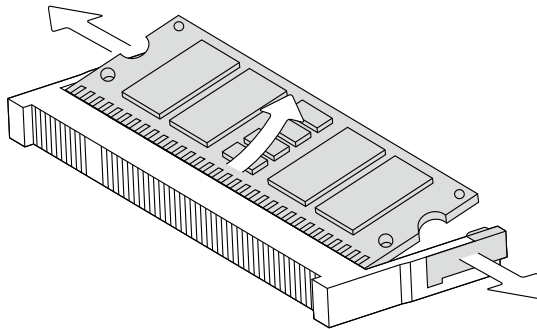
To remove and replace the RAM module, please open the chassis cover firstly as steps dscribed in chapter 3-1.

### Removing a RAM module

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

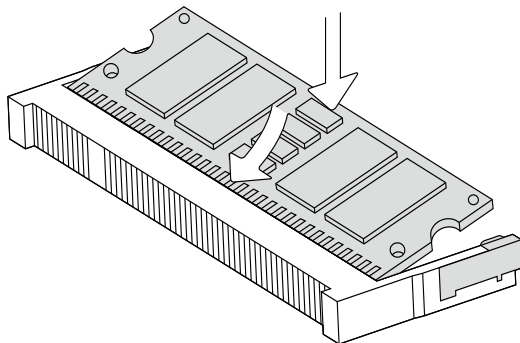


2. Flip the ejector clips outwards to remove the memory module from the memory slot.



### Installing a RAM module

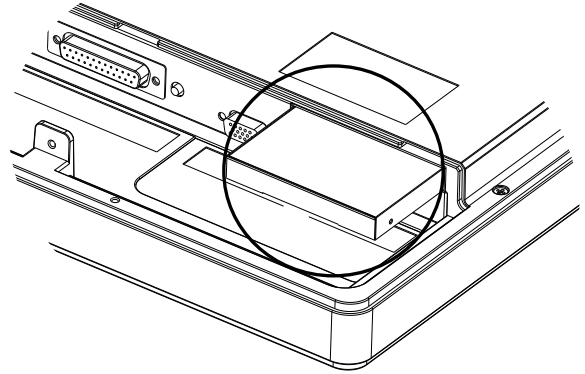
3. Slide the memory module into the memory slot and press down until the ejector clips snaps in place.



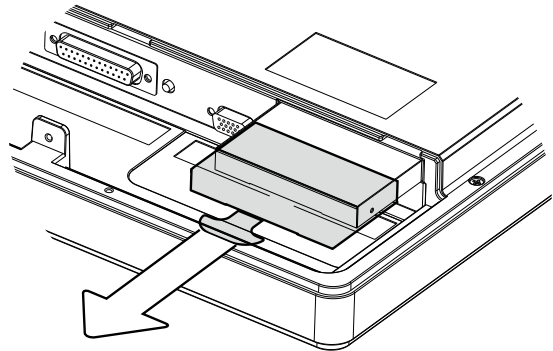
## 3-3. HDD Replacement

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

1. Find the HDD located at the right side.

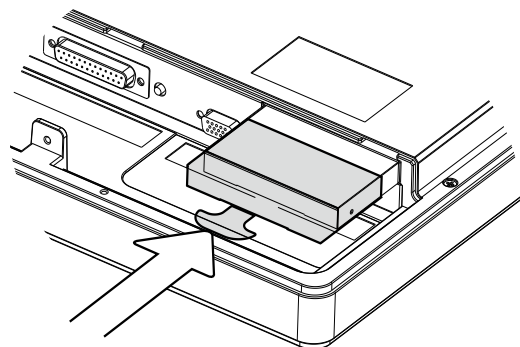
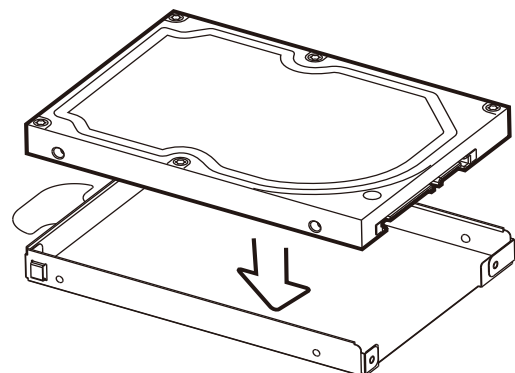


2. Pull the HDD tray from the system.  
For easier removal pull the plastic sheet (see picture) at the same time.



3. Attach the HDD to the HDD tray and slide it into the slot until it snaps in place.

- \* Please note the top of the HDD should be on the upper side.

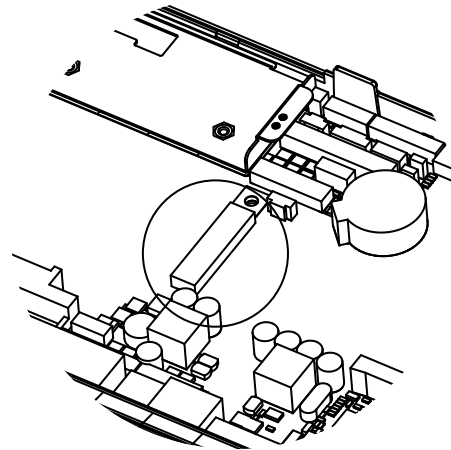




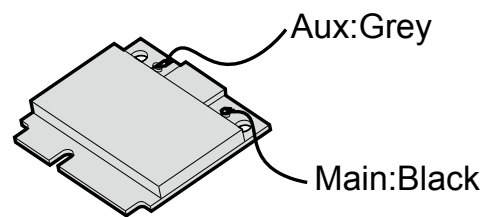
# 4. Peripheral Installation

## 4-1. MSR Installation

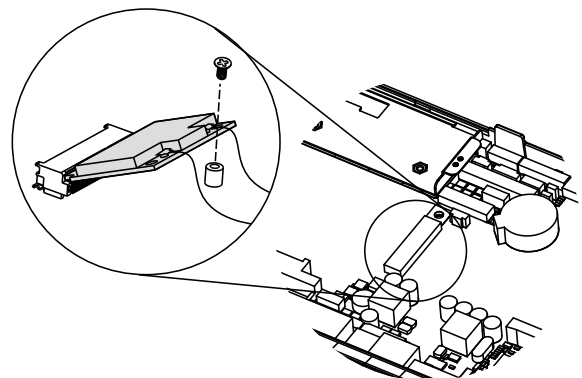
1. Follow the steps described in chapter 3-1 to open the chassis cover.
2. Find the mPCI-E WiFi card slot of the motherboard.



3. There are 2 wires installed within the system: black and grey. Connect the black wire to Main connector while connect the grey to Aux connector on the card.



4. Insert the mPCI-E WiFi card into the slot.
5. Fasten the screw (x1) onto the main side to fix the mPCI-E WiFi card.

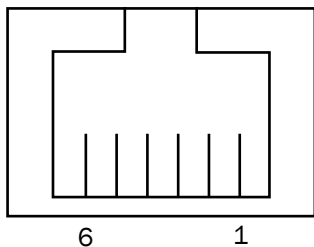


\*Note: The WiFi antenna and wires will be pre-installed prior to shipping if the function requested.

# 4-2. 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



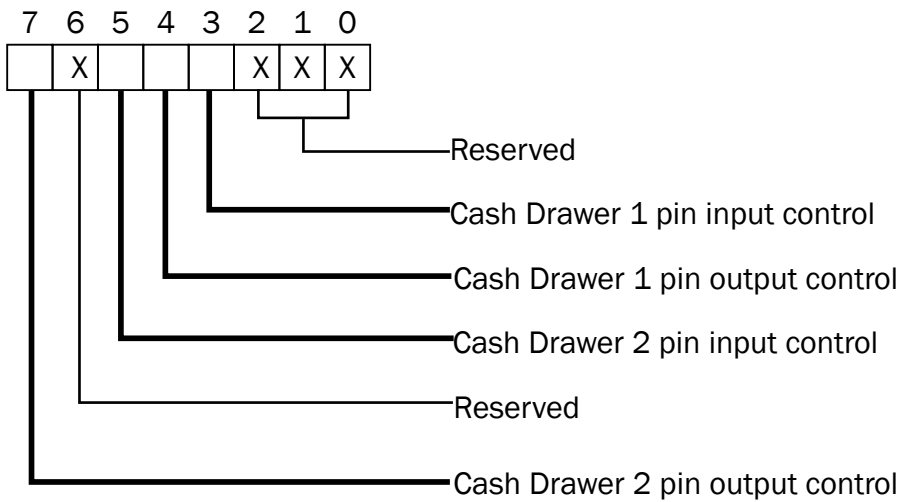
Pin	Signal
1	Cash drawer 2 In
2	Cash drawer 1 Out
3	Cash drawer 1 In
4	12V / 19V (or 24V)
5	Cash drawer 2 Out
6	GND

## 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	CD2 Out	Reserved	CD2 In	CD1 Out	CD1 In	Reserved		



Bit 7: Cash Drawer 2 pin output control

Bit 6: Reserved

Bit 5: Cash Drawer 2 pin input control

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.

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
O 482 04	Opening
O 482 00	Allow to close
<ul style="list-style-type: none"><li>▶ Set the I/O address 482h bit4 =1 for opening Cash Drawer by “DOUT bit0” pin control.</li><li>▶ Set the I/O address 482h bit4 = 0 for allow close Cash Drawer.</li></ul>	

Command	Cash Drawer
I 482	Check status
<ul style="list-style-type: none"><li>▶ The I/O address 482h bit3 =1 mean the Cash Drawer is opened or not exist.</li><li>▶ The I/O address 482h bit3 =0 mean the Cash Drawer is closed.</li></ul>	

# 5. Specification

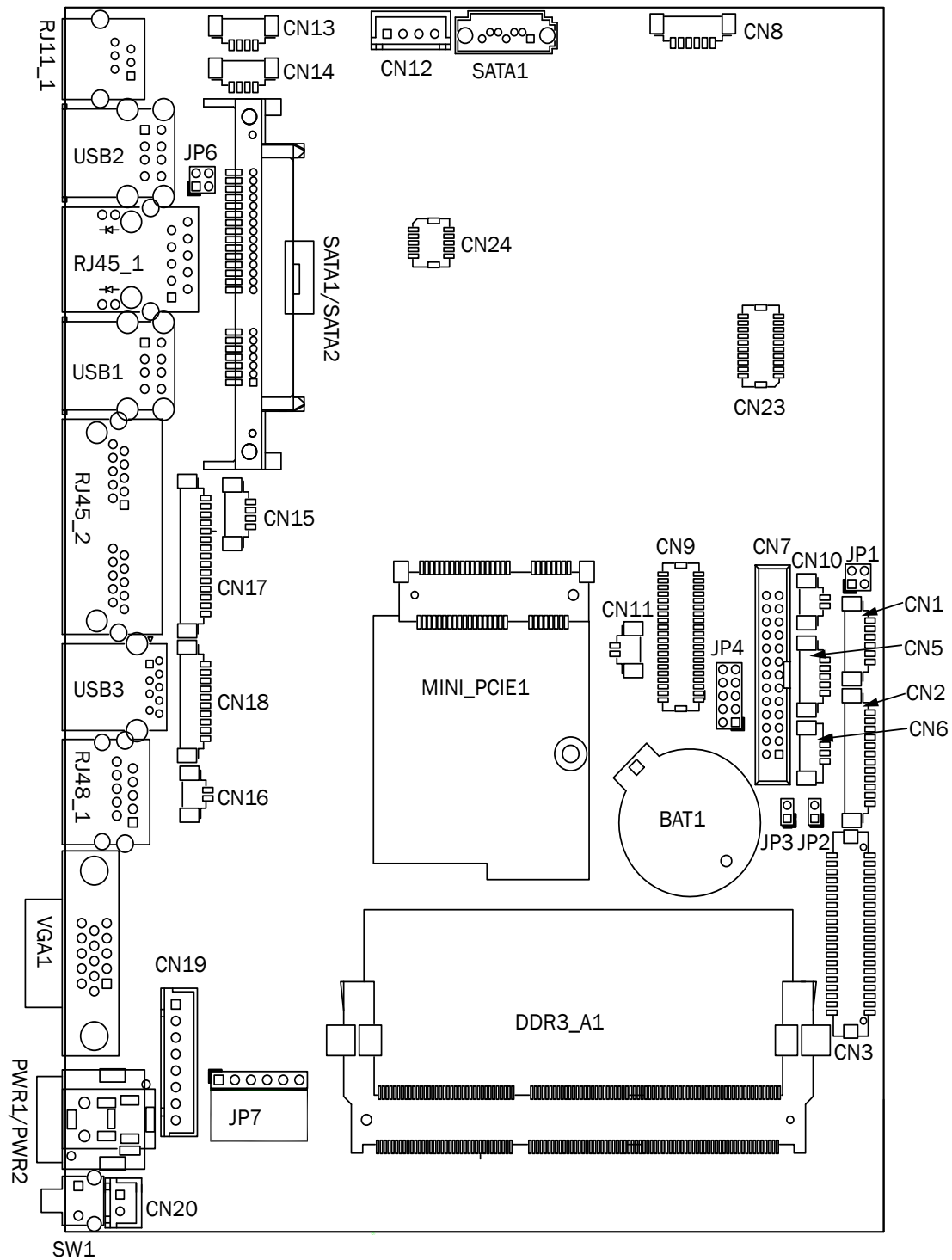
Model Name	TeosWide 1536	TeosWide 1836	TeosWide 2136
Mainboard	D36		
CPU	Intel® BayTrail J1900 2.0G (Turbo 2.41G), L2 2M, 10W		
Chipset	NA		
System Memory	DDR3L, SO-DIMM x1 , FSB 1066 / 1333Mhz, max. 8G		
Graphic Memory	Intel Gen7@>300MHz		
LAN controller (Giga LAN)	Realtek RTL8111E-VL-CG 10/100/1000 BaseT LAN		
Audio controller	Realtek ALC662VDO-GR		
Super I/O controller	NCT6106D		
LVDS controller	Realtek RTD2136R		
BIOS	Phoenix UEFI		
Touch controller	EETI USB interface		
LCD/Touch Panel			
LCD Size	15.6" LED LCD	18.5" LED LCD	21.5" LED LCD
Brightness	220 nits	250 nits	
Maximal Resolution	1366 x 768		1920 x 1080
Touch Screen Type	True flat resistive touch / True flat projected capacitive touch		
Storage			
HDD	2.5" Slim HDD bay, SATA HDD		
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)		
Peripherals			
Web Cam (Built-in)	2M Web Cam		
F40	2nd LAN (RJ-45) & COM & Wide Range Power (12~48Vdc)		
WiFi (Optional)	802.11 b/g/n WLAN card		
Expansion			
Mini PCI-E Socket	1 (half-length)		
External I/O Ports			
USB3.0	1 x USB Type A		
USB2.0	4 x USB Type A		
Serial / COM	COM1 / COM2/ COM3: 3 x RJ48 (0V/5V/12VI default BIOS setting 0V) COM4: RJ45, without power option		
LAN	1 x RJ-45		
2 <sup>nd</sup> LAN	mini-PCIe to F40 (port on F40)		
2 <sup>nd</sup> VGA	1 x DB 15 female		
Digital output	1 x RJ11 (12V /24 V)		
Audio Jack	1 x Mic-in, 1 x Line-out		
DC Jack	1 x Latch type (4pin)		
Power Button	1		
DVI-D	1(option)		

Model Name	TeosWide 1536	TeosWide 1836	TeosWide 2136
Mainboard	D36		
Thermal Solution			
Thermal Solution	Fanless		
Audio			
Speaker	2 x 2W		
Power			
Power Adapter	DC 19V / 65W		DC 19V / 90W
Environment			
EMC & Safety	FCC/CE Class A/LVD/EN 60601-1-2		
Operating Temperature	0°C ~ 35°C (32°F ~ 95°F)		
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)		
Humidity	25% - 85% RH non-condensing		
Dust & Water Proof	IP 54 (front panel)		
Dimensions (W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm	536 x 328 x 48 mm
Weight (N.W./G.W.)	4.5kg/5.5kg	6.8kg/7.8kg	8kg /9kg
Mounting	75mm x 75mm Standard VESA / Panel Mount		
OS Support	Windows 7, POSReady 7, Windows 8.1, Linux		

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

# 6. Specification

## 5-1. D36 Motherboard



## 6-1. 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
CN16	LPT touch
CN17	MSR connector
CN18	COM5 (touch) connector
CN19	Wide Range
CN20	Power button (internal)
CN21	LCM connector
CN22	POS325 51pin connector
PWR1/PWR2	DC Jack
RJ11_1	Cash drawer connector
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
DDR3_A1	DDR3 SO-DIMM
SATA0/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
JP6	Cash drawer power setting
JP7	Touch connector

## 6-2. Jumper Setting

### Inverter Selection

Function	JP1
▲ LED	<div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> </div>
CCFL	<div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> </div>

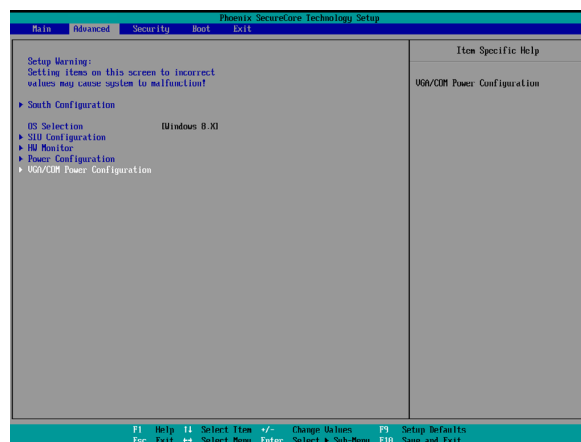
### Cash Drawer Power Setting

Function	JP6
▲ +19V	<div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> </div>
+12V	<div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> </div>

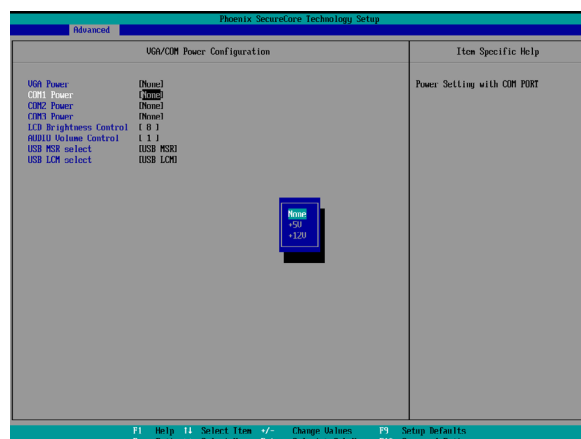
### COM1/COM2/COM3 Power Setting

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



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



▲ = Manufacturer Default Setting



## LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	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  
2 Jumper short

# Appendix: Drivers Installation

To download the most recent drivers and utilities, and obtain advice regarding the installation of your equipment, please visit the AURES Technical Support Website:

[www.aures-support.fr](http://www.aures-support.fr) (French)

[www.aures-support.fr/UK](http://www.aures-support.fr/UK) (English)

[www.aures-support.fr/GE](http://www.aures-support.fr/GE) (German)