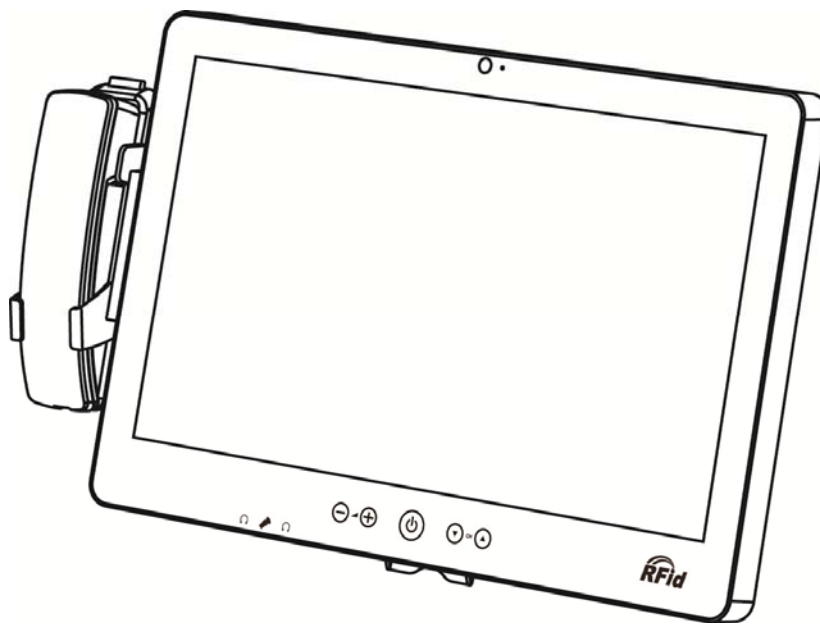


# User Manual

Version 1.1 April 2015

## MEDIVista 18.5" Bedside Terminal



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Manual Version 1.1

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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 place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
5. 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.
6. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.



### CE MARK

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



### FCC

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

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **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.

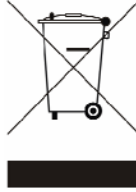
#### **4.7.3.2 Materials for fire enclosures**

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

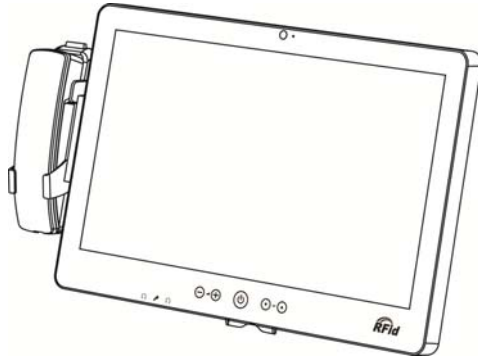
<b>Revision</b>	<b>Date</b>	<b>Description</b>
V1.0	October, 2012	● Release
V1.1	April, 2015	● D35 M/B added

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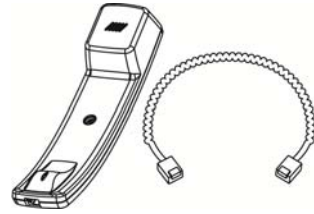
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# 1 Package Checklist

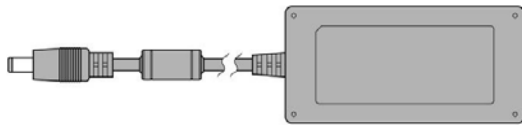
## 1-1 Standard Items



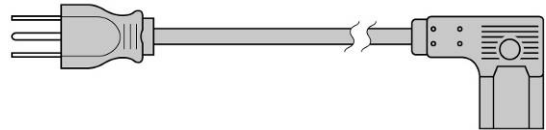
a. System



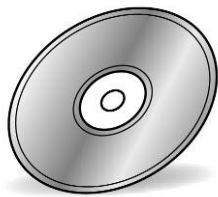
b. Phone module



c. Power adapter



d. Power cable

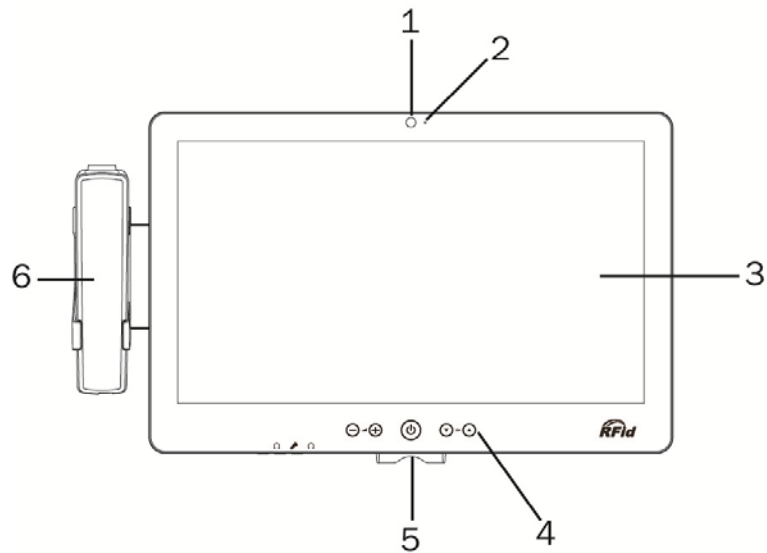


e. Driver CD



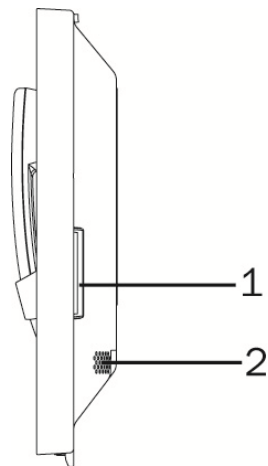
# 2 System View

## 2-1 Front View



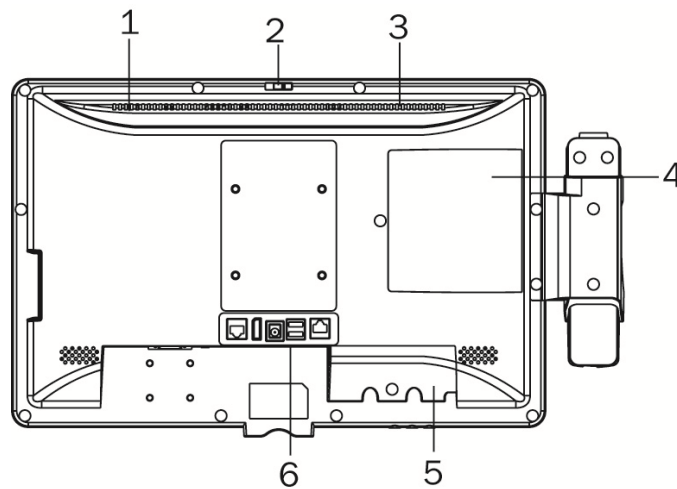
No.	Description
1	Build-in camera
2	Camera LED
3	Touch screen
4	Touch keys (from left to right: volume down, volume up, power button, channel down, channel up)
5	Smart IC card reader
6	VOIP phone (optional)

## 2-2 Side View



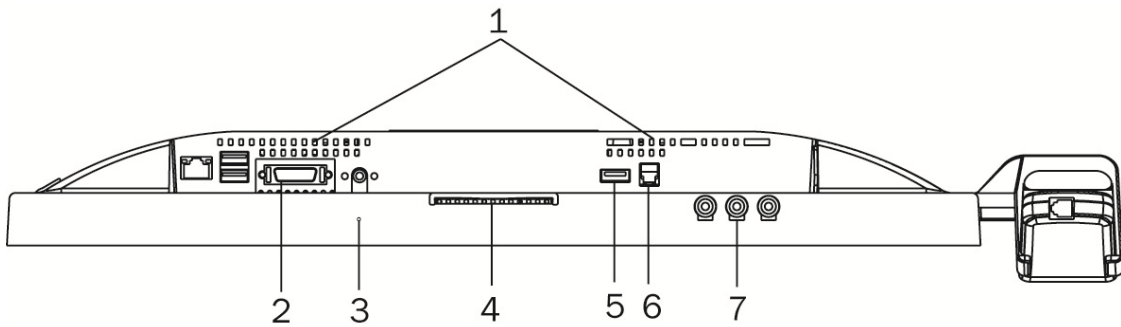
No.	Description
1	Combo smart IC card reader with separate RFID antenna (optional)
2	Speaker

## 2-3 Rear View



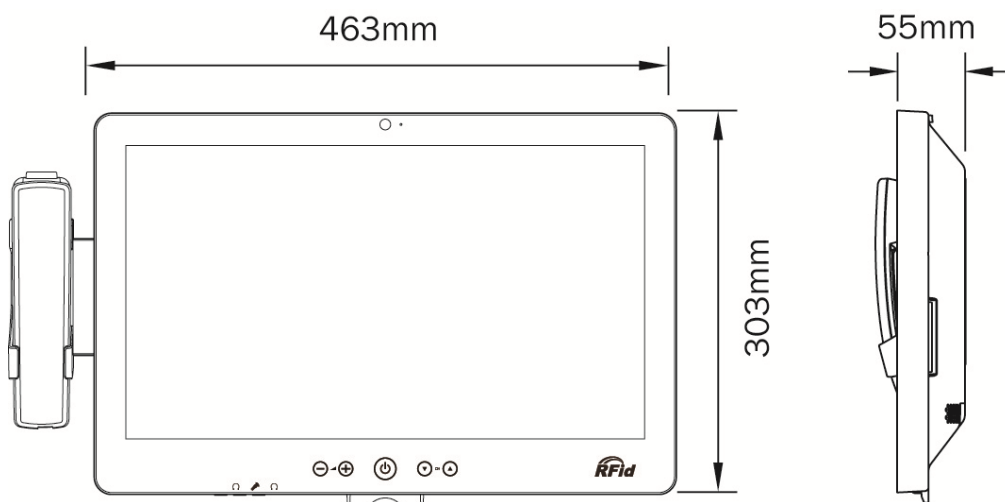
No.	Description
1	Light Sensor
2	Webcam switch
3	Ventilation
4	SSD card door
5	Cable cover
6	Vertical I/O port (from left to right: Nurse call, Display port, DC jack, USBx2, LAN )

## 2-4 Bottom View



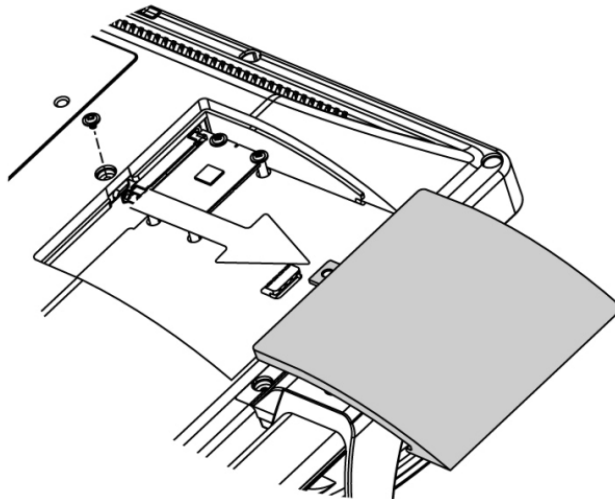
No.	Description
1	Ventilation
2	Bottom I/O port (from left to right: LAN, USBx2, Remote, Power button)
3	Microphone
4	Smart IC card reader
5	USBx1
6	Phone jack (RJ11)
7	From left to right: Audio line-out, Mic-in, Audio line-out

## 2-5 Dimension

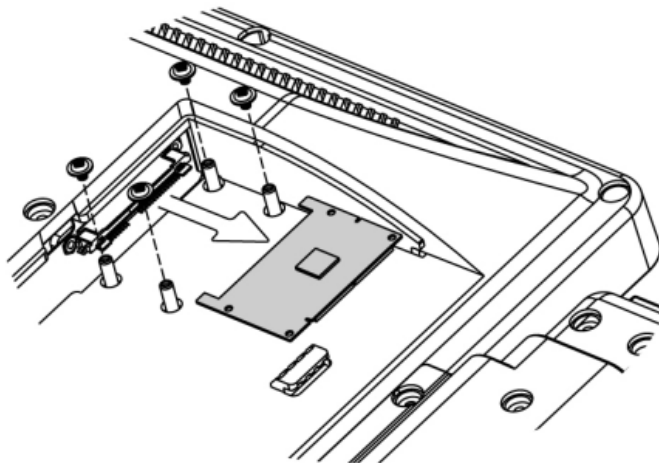


# 3 System Assembly

## 3-1 SSD Card Replacement



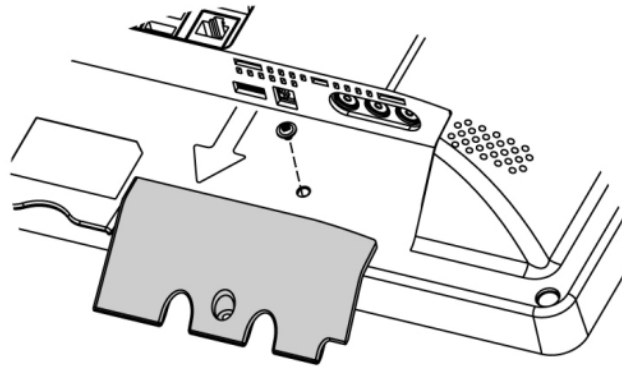
1. Find the SSD card door at the rear right side of the system and remove the screws(x1)



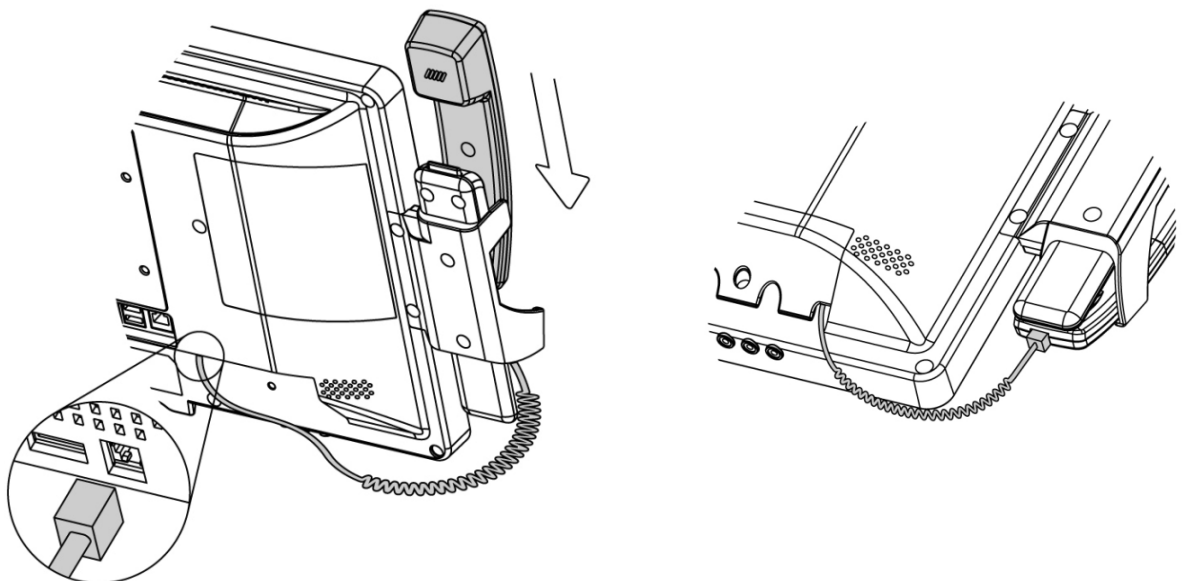
2. To replace the SSD card, remove the screws (x4) and push the SSD card outwards as shown in the picture.

# 4 Peripheral Installation

## 4-1 Phone module Installation



1. Loosen the screw(x1) to open the cable cover.



2. Slide the phone module into the phone holder and connect the other end of the phone cable to the connector on the system.

# 5 Specification

<b>Model</b>	<b>MEDIVista 18.5" Bedside Terminal</b>	
<b>Motherboard</b>	<b>C43</b>	<b>D35</b>
Processor	Pineview D525	Valleyview N2930, Quad-core 1.83G, 7.5W
Core Logic	CPU with Graphic built-in + ICH 8M	Built-in SoC
System Memory	2 x DDR3 SO-DIMM slot up to 4GB FSB800Mhz	1 x DDR3L SO-DIMM slot, FSB 1066/1333MHz default 2GB RAM (Max 8GB)
Graphic Memory	Intel GMA 3150 share system memory up to 256MB	Intel Graphic DX11.1
LAN Controller / PHY	Intel WG82583V / Intel WG82567V	Intel WG I211AT
Audio Controller	Realtek ALC 662-GR HD codec	
I/O Controller	Winbond W83627UHG	Winbond NCT6106D
Touch	18.5" TF P-cap	
Camera LED	Green-color (GPIO)	
Microphone	1	
Power LED	Tri-color (GPIO)	
Watch Dog Timer	Hardware WDT	
Display Size	18.5"	
Resolution	1366x768	
Brightness	250 nits	
Power Supply	19V/65W	
<b>Storage</b>		
HDD	1 x SSD 16G w/ SATA interface	
<b>Expansion</b>		
Mini PCI e	2 x PCI-e full size slot	1 x Half size + 1 x Full size
<b>Side I/O (Back-Left)</b>		
Smart IC Card Reader	1 (optional)	
<b>Rear I/O (Left)</b>		
LAN (2nd LAN)	1xRJ45 (with 10/100/1000,LED indicator)	
USB	2 (USB 2.0)	
Remote	1x SCSI 26pin	
Reset Button	1, button can be pressed by probe	
Power Button	1	

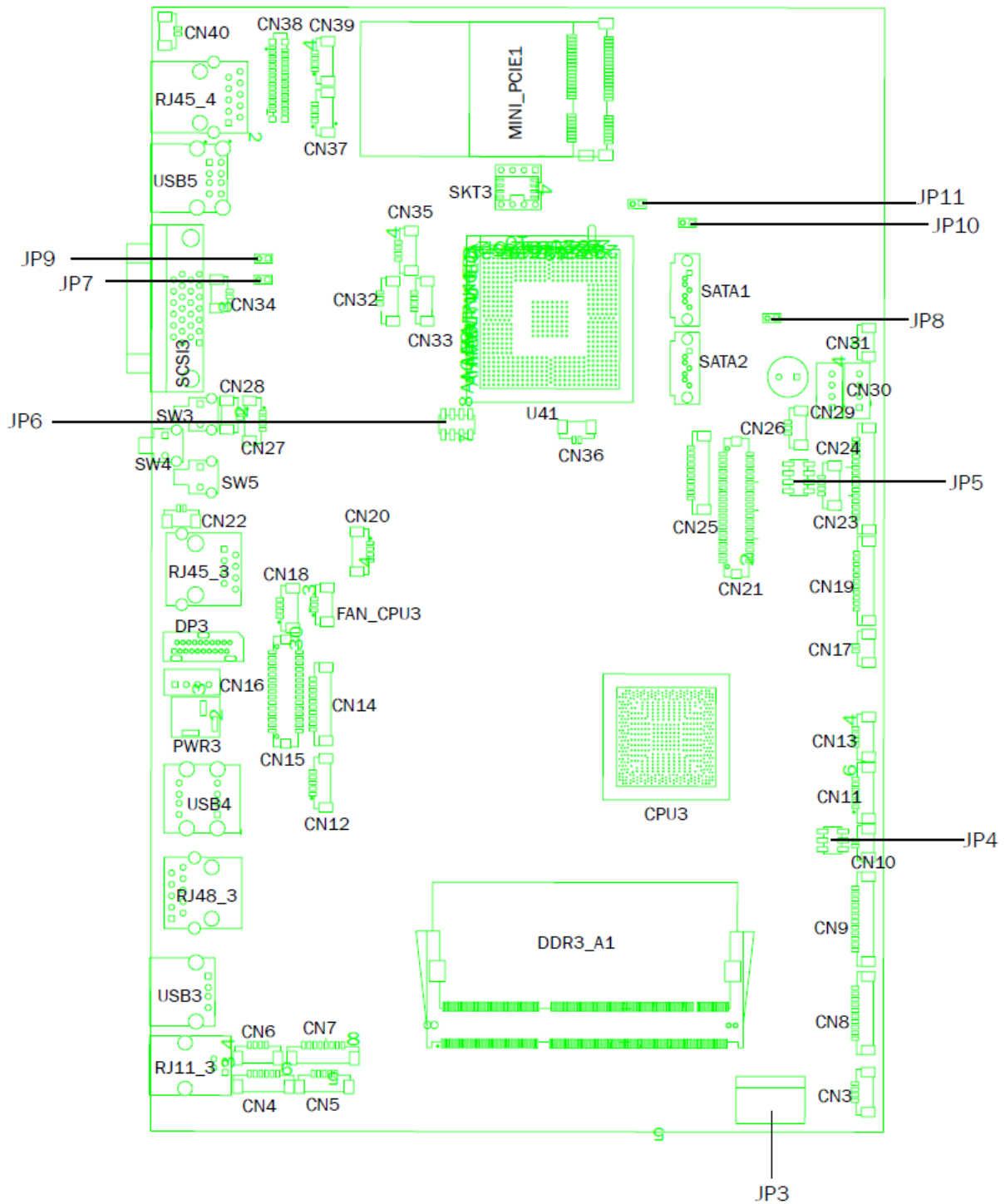
<b>Model</b>	<b>MEDIVista 18.5" Bedside Terminal</b>	
<b>Motherboard</b>	<b>C43</b>	<b>D35</b>
<b>Rear I/O (Right)</b>		
USB 3.0	1	
VOIP Phone	1 x RJ11	
<b>Rear I/O (Bottom)</b>		
USB 2.0	2	
Line-out	2 (Auto-detect,GPIO), in external IO	
Mic-In	1 (Auto-detect,GPIO), in external IO	
<b>Vertical I / O</b>		
LAN	1 x RJ45 (with 10/100/1000)	
Power	DC Jack	
Display Port	1	
USB	2 (USB 2.0)	
Nurse Call	1 x RJ48	
<b>Touch Keys</b>		
Power Button	1xPower button (GPIO)	
Channel Adjustment	1xChannel up, 1xChannel down (GPIO)	
Volume	1xVolume up, 1xVolume down (GPIO)	
<b>LED Indicator</b>		
Power LED	1 (Tri-color) (GPIO)	
Camera LED	1 (Green color) (GPIO)	
<b>Environment</b>		
EMC & Safety	FCC Class B, CE, LVD / UL60950 / EN60601	CE, FCC Class B, LVD / UL60950-1 (ESD Contact 6kV / Air 8kV)
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	
<b>Weight</b>		
Weight	5Kgs	
<b>Operating System</b>		
OS Support	Windows Embedded POSReady7, Windows 7, Linux	Windows 8, Linux
<b>Communication &amp; Peripherals</b>		
Speaker	2x3W	
Build In Microphone	In the bottom side	
Webcam	5M web cam (USB interface) with webcam door (w/ fly LED cable to MB & control by GPIO)	

<b>Model</b>	<b>MEDIVista 18.5" Bedside Terminal</b>	
<b>Motherboard</b>	<b>C43</b>	<b>D35</b>
VOIP Phone (Front left)	Handset module (optional)	
Smart IC Card Reader	Comply with ISO 7816-1,2,3,T=1 and T=0 protocol	
Combo Smart IC Card Reader (optional) with separate RFID antenna in the front bezel	Comply with ISO 7816-1,2,3,T=1 and T=0 Support MIFARE, MIFARE+ ,Desfire, PC/SC 2.0, HID	
Light Sensor	Yes (GPIO)	



# 6 Jumper Settings

## 6-1 C43 Motherboard 6-1-1 Motherboard Layout



## 6-1-2 Connectors & Functions

Connector	Function
CN3	USB Port For Web Cam
CN4	Speaker & MIC
CN5	Cradle
CN6	Speaker
CN7	Audio Jack (Line out & MIC)
CN9	Inverter
CN10	Build-In MIC
CN12	Nurse Call Button
CN14	Membrane
CN15	3OP All-In-One (Membrane, 2D scanner, RFID, Smart card, Audio Jack)
CN17	Nurse Call LED Power
CN18	Audio Jack (Line Out)
CN19/JP5	System Indicator
CN20	IrDA
CN21	LVDS
CN22	Power LED
CN23	PS/2 Keyboard
CN24	MSR
CN25	COM1
CN26	System FAN
CN27	MIC for AEC
CN28	Power Button
CN29/30	SATA Power
CN31	HDD LED
CN32/35	Internal USB
CN33	USB Port For DVD Dong
CN34	LAN2 LED
CN36	Battery
CN37	USB Port For RFID
CN38	2D Scanner
CN39	USB Port For Smart Card
CN40	LAN1 LED
DP3	DVI
PWR3	+19V DC Jack
RJ11_3	Handset

<b>Connector</b>	<b>Function</b>
RJ45_3	LAN2
RJ45_4	LAN1
RJ48_3	Nurse Call
SATA1/2	SATA
SCSI_3	Remote Control
USB3	USB3
USB4	USB1, USB2 of HUB
USB5	USB1, USB2
JP3	Touch
JP4	Inverter Selection
JP6	LCD ID Setting
JP7	MCU Power Button
JP8	Power Mode Setting
JP9	MCU Mode Setting
JP10	System Reset
JP11	CMOS Operation Mode

## 6-1-3 Jumper Settings

### Inverter Selection

Function	JP4 (1-2) (3-4) (5-6)
CCFL	<pre> 1 3 5 □ □ ■ □ □ ■ 2 4 6           </pre>
▲ LED	<pre> 1 3 5 ■ ■ □ ■ ■ □ 2 4 6           </pre>

### System Indicator

Function	JP5 (1-2) (3-4) (5-6) (7-8)
▲ Disable	<pre> 1 3 5 7 ■ ■ □ □ ■ ■ □ □ 2 4 6 8           </pre>
Enable	<pre> 1 3 5 7 □ □ ■ ■ □ □ ■ ■ 2 4 6 8           </pre>

### MCU Power Button

Function	JP7 (1-2)
Disable	<pre> 1 □ □ 2           </pre>
▲ Enable	<pre> 1 ■ ■ 2           </pre>

### Power Mode Setting

Function	JP8 (1-2)
▲ ATX Power	<pre> 1 □ □ 2           </pre>
AT Power	<pre> 1 ■ ■ 2           </pre>

### MCU Mode Setting

Function	JP9 (1-2)
▲ Normal	<div style="display: flex; flex-direction: column; align-items: center;"> <span>1</span> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <span>2</span> </div>
ISP Debug	<div style="display: flex; flex-direction: column; align-items: center;"> <span>1</span> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <span>2</span> </div>

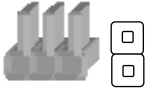
### System Reset

Function	JP10 (1-2)
▲ System Normal	<div style="display: flex; flex-direction: column; align-items: center;"> <span>1</span> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <span>2</span> </div>
System Reset	<div style="display: flex; flex-direction: column; align-items: center;"> <span>1</span> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <span>2</span> </div>

### CMOS Operation Mode

Function	JP11 (1-2)
▲ CMOS Normal	<div style="display: flex; flex-direction: column; align-items: center;"> <span>1</span> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <span>2</span> </div>
CMOS Reset	<div style="display: flex; flex-direction: column; align-items: center;"> <span>1</span> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <span>2</span> </div>

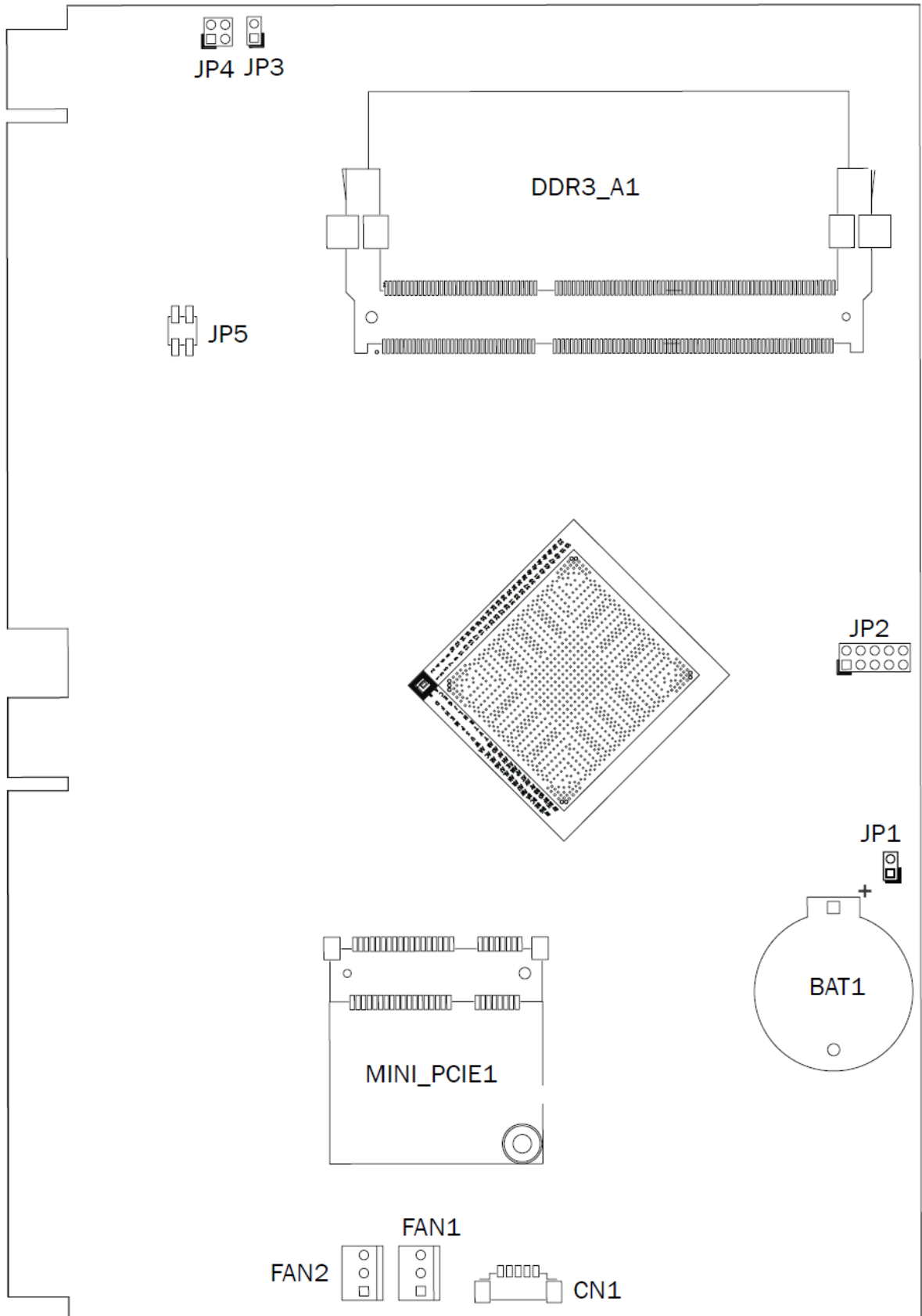
▲ = Manufacturer Default Setting

Note:  OPEN

 SHORT

# 6-2 D35 Motherboard

## 6-2-1 Motherboard Layout





## 6-2-2 Connectors & Functions



Connector	Function
CN12	SATA Power
CN6	Touch
CN27	Nurse Call LED
CN28	Push-Pull Button Connector
CN2	HDD LED
CN21	LVDS Connector
CN1	Power LED
CN4	Reading Light Connector
CN16	Speaker Connector
CN17	Audio Connector
CN8	Membrane Connector
CN5	COM Port
CN15	MSR Connector
CN29	USB 2.0
CN35	USB 2.0
CN18	AEC
FAN1	FAN
CN10	Light Sensor Connector
CN19	Build in MIC Connector
CN31	USB 2.0
CN32	USB 2.0
CN33	USB 2.0
CN9	Cradle Connector
CN20	Inverter Connector
CN34	Wide Range
RJ11_1	Handset
USB1	USB 3.0
RJ48_1	Nurse Call Connector
USB2	USB 2.0
PWR1	DC Jack
DP1	DVI/VGA Output
RJ45_2	LAN2
SW1	RESET Button
SW2	Power Button
SCSI1	Remote Control
USB4	USB 2.0
RJ45_1	LAN1

## 6-2-3 Jumper Settings



### Inverter Selection

Function	JP4 (1-2) (3-4)
CCFL	1 3  2 4
▲ LED	1 3  2 4

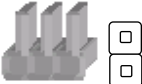
### F30 Inverter Selection

Function	JP3 (1-2) (3-4) (5-6)
CCFL	1 3 5  2 4 6
▲ LED	1 3 5  2 4 6

### Cash Drawer Power Setting

Function	JP5 (1-2) (3-4)
12V	1 3  2 4
▲ 19V	1 3  2 4

▲ = Manufacturer Default Setting

Note:  OPEN

 SHORT



# 7 Drivers Installation

The shipping package includes a Driver CD. You can find every individual driver and utility that enables you to install the drivers in the Driver CD.

Please insert the Driver CD into the drive and double click on the “index.htm” to pick up the models. You can refer to the drivers installation guide for each driver in the “Driver/Manual List”.