

Quick Start Guide

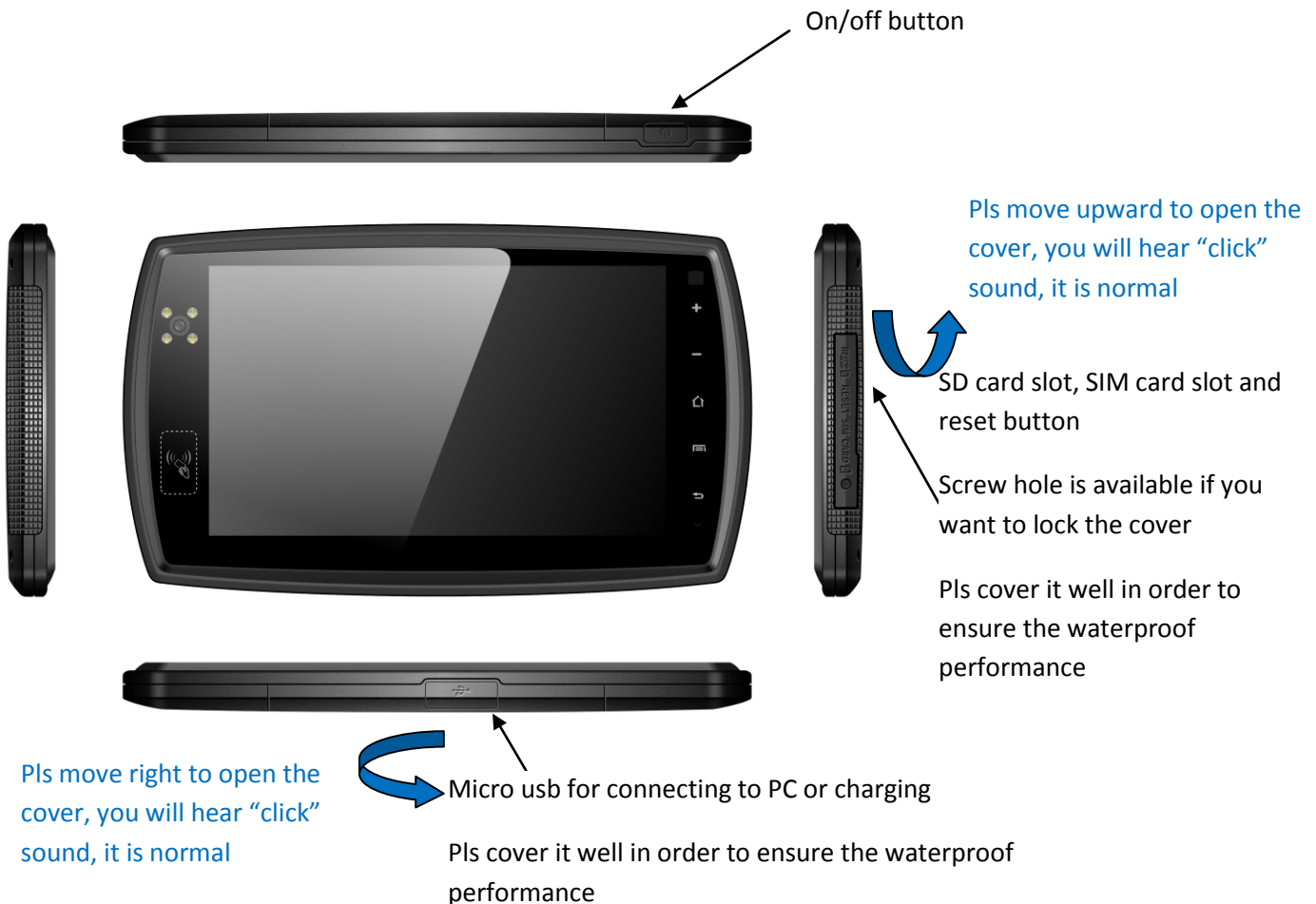
Product introduction

MDT720 has optional features (wifi, BT, GPS, 3G, back camera, front camera, RFID, lightsensor, gyroscope, accelerometer)

Highlights:

3G – pls insert the SIM card when the device is complete off

front camera – there are 6 IR LED around the camera. if you enable the flash function in front camera, then you will see the IR LED is on. In this case, the picture will be in black and white

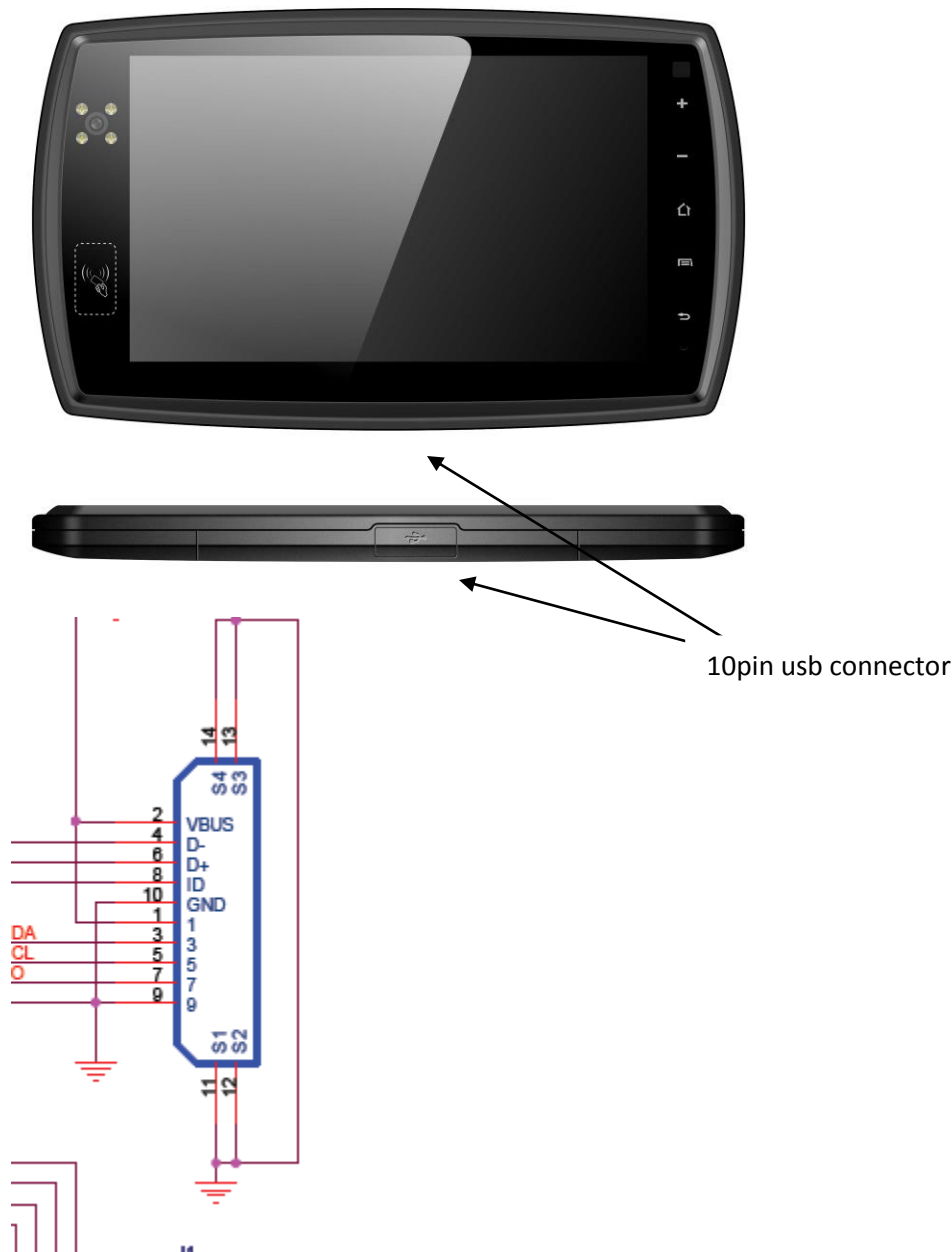


Direction of SIM card and SD card



Interface

1. There is TTL serial port (Tx/RX) or OTG from 10 pin usb connector



pls see the above schematics of our USB connector in our PND, it is 10 pin connector.

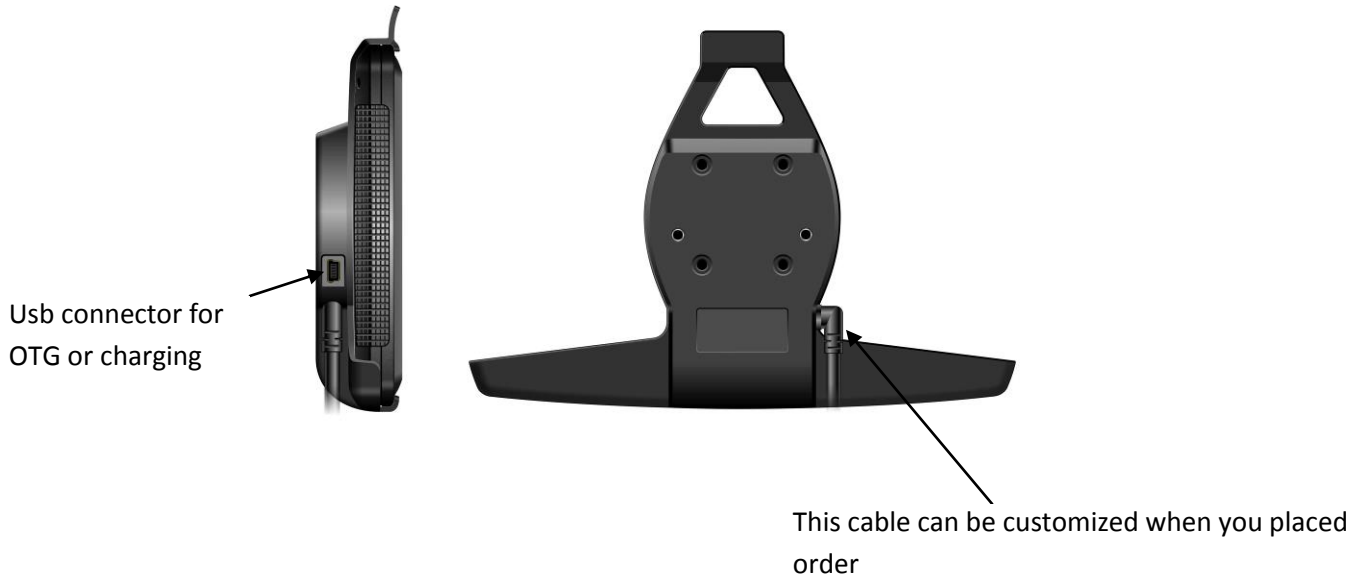
Pin 4 and 6 can be used for USB or TTL serial interface (Rx/Tx) and Pin 8 is ID pin which is used to distinguish for USB or serial interface.

if it is connected to GND, then the pin 4 and 6 will be Rx/Tx interface.

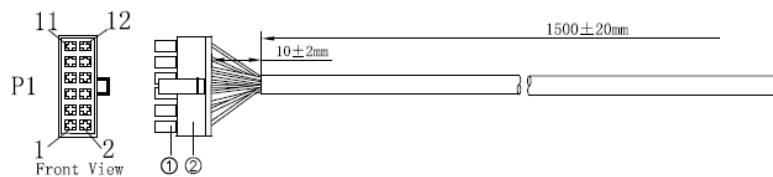
if it is connected to Vcc, then the pin 4 and 6 will be D- and D+.

2. There are Rs232 interface and OTG from cradle.

Highlights: OTG port from device (10pin usb connector) and cradle are sharing same pins. Only 1 OTG interface can be used.



For sample, it will be 12 pins connector, pls see below or pins assignment



- Pin 1 – Ignition (white)
- Pin 2 – GPIO (reserved) (green)
- Pin 3 – CTS (red)
- Pin 4 – car battery input (12-28V) (black)
- Pin 5 – RTS (blue)
- Pin 6 – RXD (yellow)
- Pin 7 – TXD (purple)
- Pin 8 – GND (grey)
- Pin 9 – GND (orange)
- Pin 10 – NOT connected (brown)
- Pin 11 – NOT connected (pink)
- Pin 12 – 5V input (white-black)

Highlights: if you are using OTG with external device, you can only charge the device by 12V input.

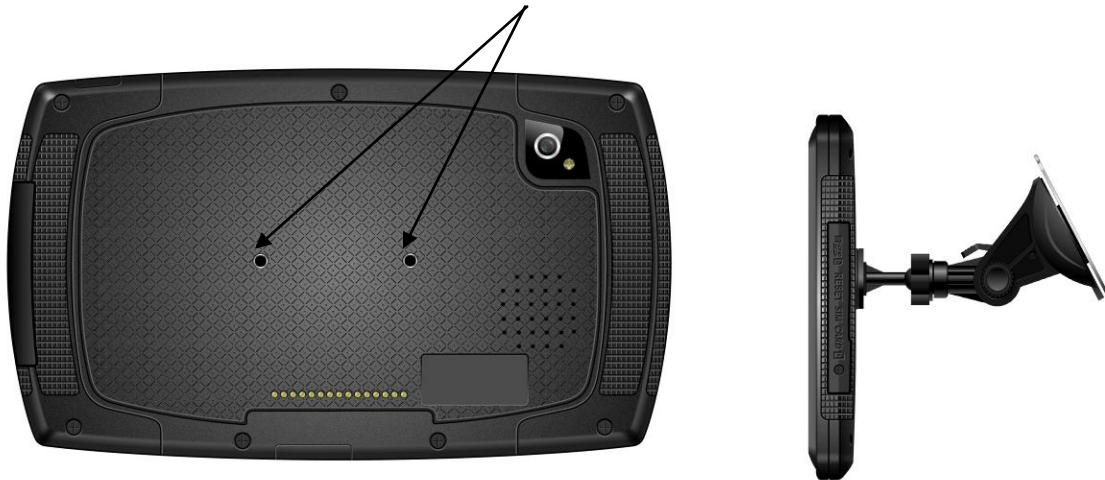
Device installation

There are few options

1. Directly attach mount to device (no cradle in this case)

2 screw hole at the back

Pls use M4 18mm screw



2. Cradle attached to car mount with different screw length

2 screw hole at the back

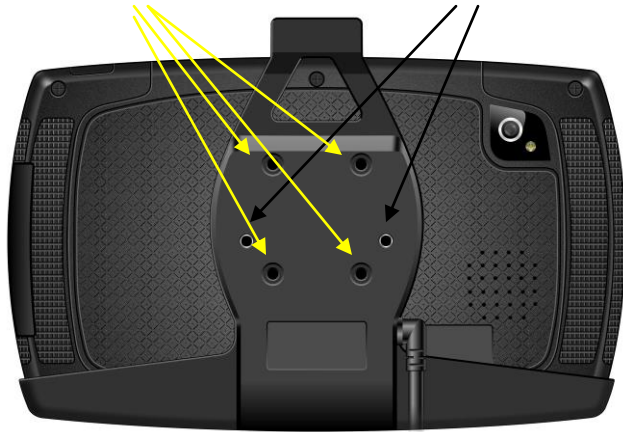
Case 1 – if M4 18mm screw is used, the device will be removable from cradle

Case 2 – if M4 23mm screw is used, the device will be not removable from cradle



Mount options:

There are many car mount options. You can use the 2 screw hole (black colour) or 4 screw hole (yellow colour) to attach the different mount system.



Option 1:

Low cost wind shield car mount

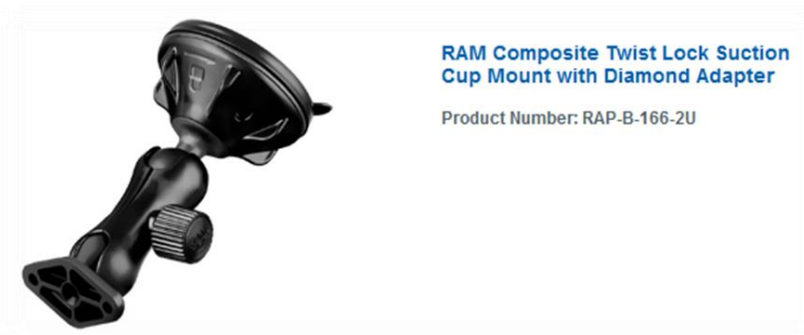


Option 2:

Many mount option from RAM MOUNT

You can choose the mount you like from their website (www.rammount.com)

Example 1 (RAP-B-166-2U)



Example 2 (RAP-B-166-2U)



Example 3 (RAM-B-138U-A)



**RAM Mount 1 Inch Diameter Ball
Short Double Socket A Arm with 2.5
Inch Round Base and Diamond
Adaptor (U)**

Example 4 (RAP-B-138-AU)



Option 3:

You can also choose mount from HR (<http://www.hr-autocomfort.de/>)

There are 4 hole plate which you can lock in the cradle with 4 screw hole. then, you can choose the mount from HR.



Example 1 (1719/0)



Option 4:

There are other mount which can support this 2 screw hole and 4 screw hole at the back can be used.

For my understanding, there are other mount company also use this 2 or 4 screw hole as standard.

Pls let know if you need other mounting system or solution.



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Software support

We can provide serial port apk and NFC demo. Pls contact our Sales for details.

Pls also see the software setting for serial port

two serial ports are available one the device :

- one shares the the USB data pins of the mini A/B USB connector. Only TX and RX pins are available, voltage is TTL 3.3V.
- one is on the Pogopin interface (pins 3, 5, 6 and 7). TX, RX CTS and RTS are available, voltage is RS232.

On the software side, the tty devices corresponding to these ports are :

- for the RS232 port, /dev/user_external_tty

RS232 interface need to be enable prior to use :

```
$> echo 1 > /dev/enable_external_tty
```

After use, it can be disabled with :

```
$> echo 0 > /dev/enable_external_tty
```

- for the TTL port, /dev/user_tty

In addition, one I2C port is available both on the USB and Procopin connectors.

- The I2C interface is accessible through /dev/user_i2c
- accessible through /dev/user_i2c

FCC RF Exposure Information and Statement

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types GPS product (FCC ID: 2AHAF-MDT7P) has also been tested against this SAR limit. The highest reported SAR values for body is 0.841W/kg. This device was tested for typical body operations with the back of the tablet kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body and the back of the tablet. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

FCC Warning

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Information to Users

According to the RSS-Gen section 8.4 and RSP-100 section 3.2, for this EUT, the instructions or operation manual furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

IC WARNING

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.