

MT7010

Quick Start Guide



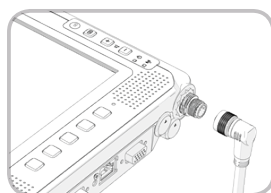
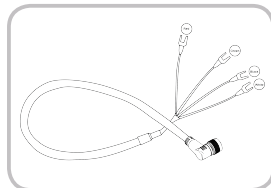
Powering the System

Connector Power

MT7010-QA series only accept 12VDC power input via a 3-pin circular power cord,, MT7010-QB series allows a wide range of DC power input from 9~36V.

Note: There are two options to start up the MT7010 via car power cable or external power adapter.

3-pin circular power cord



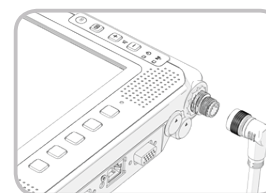
Wire Definition

Wire Color	Description
RED	V+
BLACK	V-
GREEN	Chassis Ground
WHITE	ACC/ Ignition

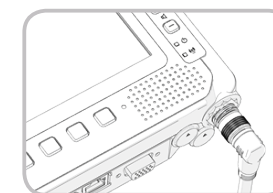
Powering the System

Power source from car power cable

- 1.The bare wire lead cable allows you to directly wire 12 V or 24 V to car power supply. Please follow the wire definition to connect to your power source.
- 2.Plug the power code into the power connector. Twist the nut to lock the power connector to the device.
- 3.MT7010 will turn on automatically when the power supply is connected to the device



Twist



Power source from external power adapter



If your power source is from external power adapter, the mean the power source doesn't control by AAC/Ignition signal. Please short red (V+) and white (ACC/ Ignition) wires.

Ensure that the power supplies are disconnected when the power cord plug into the power connector.

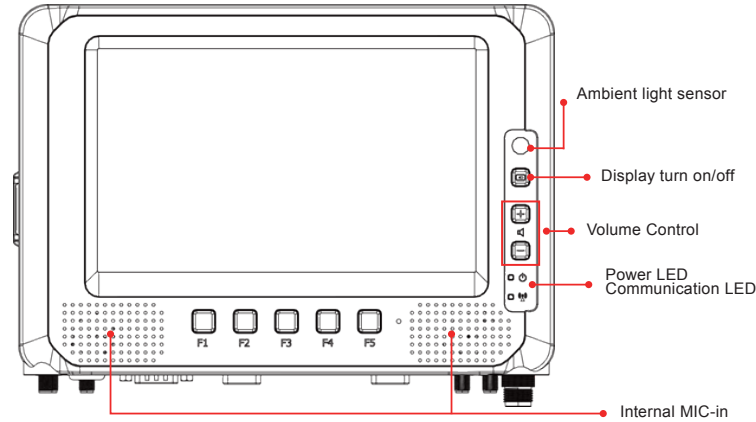
Powering Down the System



MT7010 will be auto power off after one minute when the power supply is removed. If you use software to power off the system, please remember to remove the power supply too

THIS PRODUCT CONTAINS LITHIUM-ION BATTERY PACKS. IT MUST BE DISPOSED OF PROPERLY. CONTACT LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL PLANS IN YOUR AREA

Product Introduction

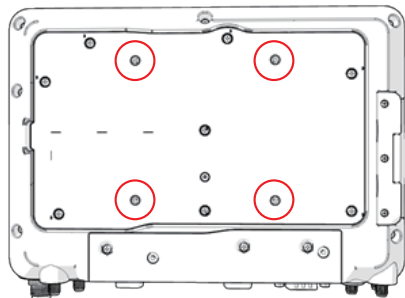


The LEDs on MT7010 are status indicators that show the operating status of your system.

LED	Status	Description
PWR	Blink Green	Power up
PWR.	Blink Yellow	Load BIOS/ boot loader
PWR	Solid Green	System ready to use
PWR	Blink Red	Vehicle battery abnormal
Comm.	Solid Green	WWAN enable

Rear View

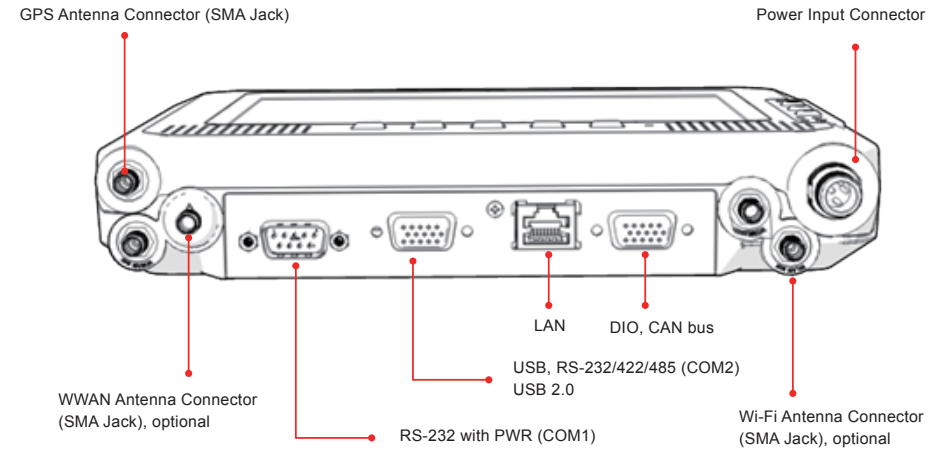
The MT7010 supports a standard VESA version MIS-D, 75, C through the four drill holes on the back side of the device.



Notes: To prevent any damage or injury, make sure the mounting bracket is securely attached.

Product Introduction

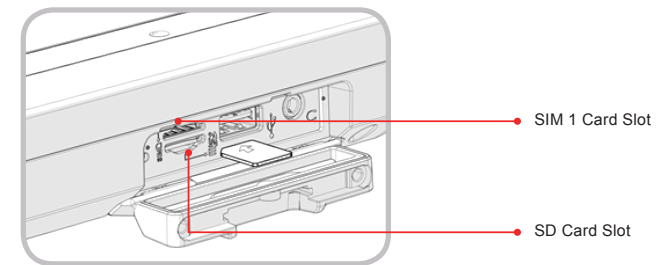
Bottom View



Note: The bottom side is up to the SKU version and has varied IO and function. The above is for MT7010-QB series.

Install the SIM Card

1. Shut down the system properly and disconnect from all power sources.
2. Insert your SIM 1 card. Make sure the angled corner of the card is positioned correctly.



Make sure the power status LED light is off when installing or removing the WWAN/WLAN Antennas.

Cable Pin Assignments

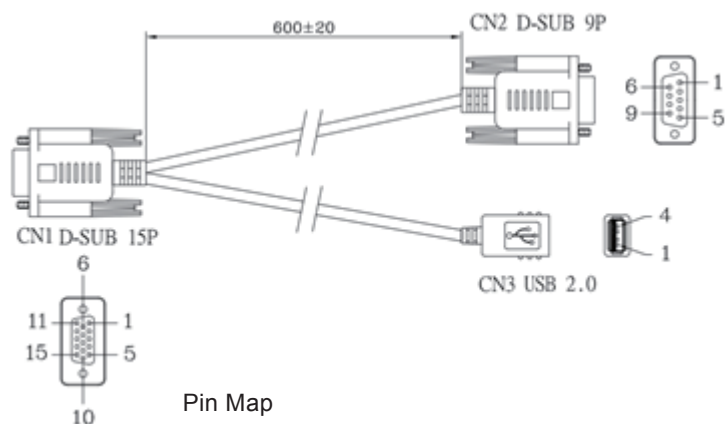
RS-232/422/485 and USB Cable

This Y-cable with DB15 male connector is the RS232/422/485 and USB converter. The other end of this Y-cable contains one USB type A jack for USB2.0 and one DB9 male connector for RS232/422/485. If you like to use RS232 or RS422 or RS485, please refer the pin definition below.

Pin Definition of DB15 male connector:

Pin Number	Description	Pin Number	Description
1	RS-422 TX+	9	USB 5V
2	RS-422 RX+	10	RS-232 RX
3	RS-485 TX+	11	GND
4	RS-232 TX	12	USB DP
5	GND	13	USB DM
6	RS-422 TX-	14	USB 5V
7	RS-422 RX-	15	NC
8	RS-485 TX-		

Cable Drawing



Cable Pin Assignments

CN1	6	1	7	2	8	3	4	10	5	9	14	11	12	13
CN2	1	2	3	4	5	6	7	8	9					
CN3										1	4	3	2	
Color										VCC RED	GND BLK	DP GRN	DM WHT	

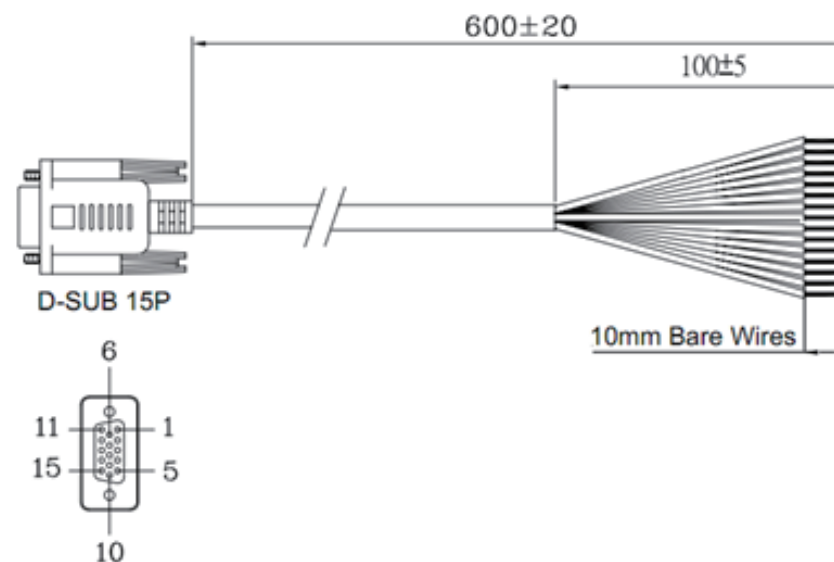
Notes: This is for MT7010-QB series

GPIO and CAN-Bus Cable

This cable is DB15 male connector to multiple pins without termination. Bare wires contain GPIO pins, wheel tick, CAN signal, and OBDII signal.

Note: One only protocol could be selected.

Cable Drawing



Cable Pin Assignments

Pin Definition

Pin Number	Description	Pin Number	Description
1	CAN_H	9	RD POWER
2	J1850_BUS+	10	GND
3	K_LINE	11	SOS
4	FWD	12	DIO_OUT1
5	WHEELTICK	13	DIO_IN1
6	CAN_L	14	DIO_IN2
7	J1850_BUS-	15	DIO_OUT2
8	L_LINE		

Notes: This is for MT7010-QB series

DashON Setting



DashON is an utility to configure the device for your demo or test. We also provide the corresponding SDK for your application development. The utility is auto-running in background while the system turns on. This section is to brief what function are included in DashON, about the detail setting, please refer the user manual.

1. Device Information

Provide the system hardware, software, and firmware version information.

2. Vehicle Status

This section is to demo how to read the vehicle information such as vehicle battery voltage, fuel, speed and so on while connecting with vehicle OBDII or SAE J1939. We use the simulator to run the demo.

3. Communication Setting

This is to enable / disable Wi-Fi/BT/WWAN and configure the related setting.

4. System Status & Setting

This section contains the major configuration of the system device. Power management, wake up event, IO configuration, brightness and watchdog timer setting are included.

5. Location & Sensor

GPS configuration setting and temperature status