

# MT7000

## Mobile Data Terminal

### Quick Start Guide

#### PACKAGE LIST

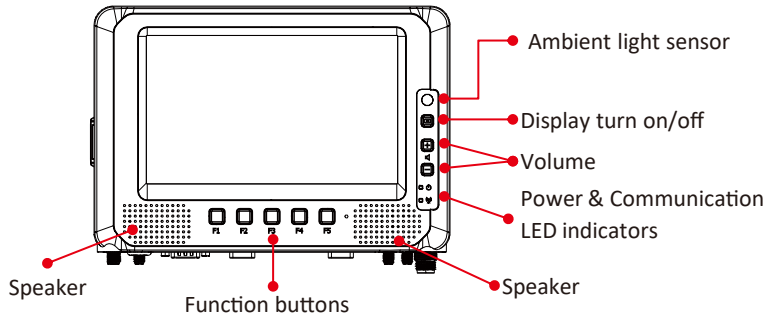
Before you begin the installation or configuration process, make sure all the components and accessories are intact. Contact your representative if any is missing or damaged. Please verify the delivery of the contents upon receipt.

- MT7000 in-vehicle terminal
- Quick Start Guide
- Circular power connector to Fork Terminals (Length: 300mm)
- 2-foot DB15 male connector cable with multiple end
- 2-foot DB15 male connector cable (no termination)

**NOTE:** The packaging material provides optimal protection to your device. After unpacking, **DO** store the original packaging material in the event that you need to return for shipment.

#### PRODUCT INTRODUCTION

##### Front View



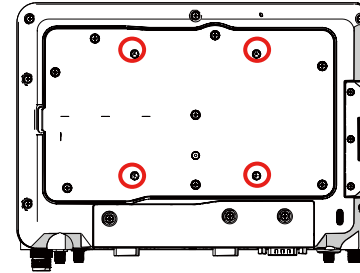
The LEDs on MT7000 are status indicators that show the operating status of your system.

LED	Status	Description
Power	Blink Green	Power up

#### PRODUCT INTRODUCTION

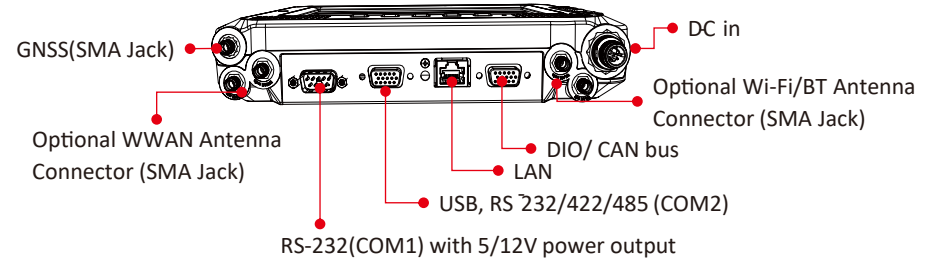
LED	Status	Description
Power	Blink Yellow	Load boot loader
Power	Solid Green	System ready to use
Power	Blink Red	Vehicle battery abnormal
Communication	Solid Green	WWAN enabled

##### Rear View

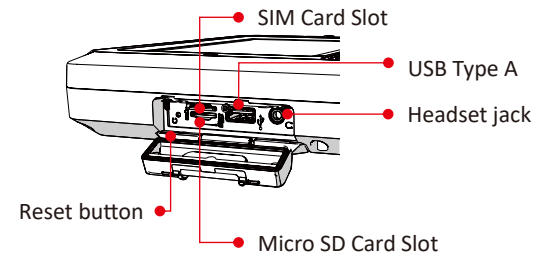


The MT7000 supports a standard VESA version MIS-D, 75, C (75mm distance quadrate order, M5 thread, deepness 6mm) with four mounting holes on the back side of the device.

##### Bottom View



##### Side View



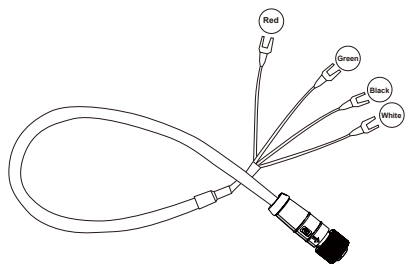
The power management, I/O configuration, and button settings can be configured in DashON.

## POWERING ON THE SYSTEM

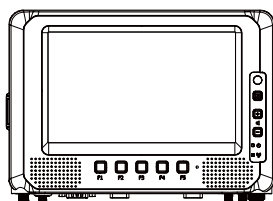
MT7000 allows a wide range of DC power input from 9~36V via a 3-pin circular power cord. There are two options to start up the MT7000, either via car power cable or external power adapter.

### Power on through vehicle battery

1. The bare wire lead cable lets you directly wire to 12V or 24V car power supply.
2. Please refer to the wire definition below for connecting your power source.



Wire Color	Description
RED	V+
BLACK	V-
GREEN	PE (Safety Ground)
WHITE	ACC/ Ignition



### Fuse Requirements

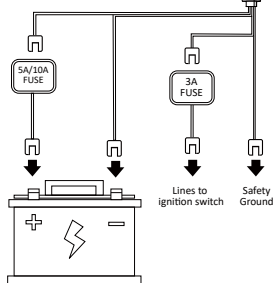
Fuses\* are required in connecting the power cable and battery in series and add 3A fuse in ACC/ignition line to avoid the risks of wire damage and vehicle burning. For detailed power wiring diagram, please refer to the Powering the System section of Chapter 4 in MT7000's user manual.



### Notes:

- \* 5A for 24VDC power input
- \* 10A for 12VDC power input

Make sure that all power supplies are disconnected when you plug the power cord into the power connector.

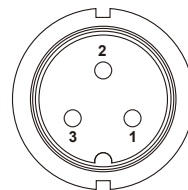


### Power on through external power adapter

Please connect red (V+) wire to white (ACC/ Ignition) wire to power on MT7000 through an external power adapter. ACC/ignition mode is not supported in such condition.

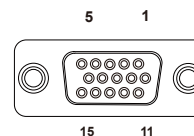
## CONNECTOR PIN ASSIGNMENTS

### Power Connector



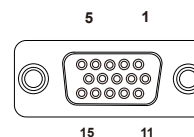
Pin	Description
1	DC+
2	GND
3	ACC/ Ignition

### USB and RS-232/422/485 Port (COM2)



Pin	Description	Pin	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-		

### DIO and CAN bus Port



Pin	Description	Pin	Description
1	CAN_H	9	CARD POWER
2	N/A	10	GND
3	N/A	11	SOS
4	N/A	12	DIO_OUT1 (5V 10mA)
5	N/A	13	DIO_IN1 (5V 100mA)
6	CAN_L	14	DIO_IN2 (5V 100mA)
7	N/A	15	DIO_OUT2 (5V 10mA)
8	N/A		