

Rugged Tablet

MDT-805

8 Inch 5G Rugged Android Tablet / In-Vehicle Terminal

User Manual

Version 1.0



Revision History

Version	Release Time	Description
1.0	202512	Initial Release

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About This Manual

This user manual provides the general information and installation instructions for the PaceBlade MDT-805. This manual is created for experienced users and integrators with hardware knowledge of personal computer knowledge. If you are not sure about any description in this manual, consult your vendor before further handling.

We recommend that you keep one copy of this manual for the quick reference of any necessary maintenance in the future. Thank you for choosing PaceBlade.

Safety Precautions

Please charge and discharge the device as one cycle at room temperature when the device has been stored for 3 months or more.

Do not attempt to repair, customize, or disassemble the device without the appropriate knowledge and pre-cautions. Doing so may lead to dangerous situations with a chance on damaging the product.

Do not use in extreme conditions such as high and low temperatures. It may damage the battery and impact the product life time. Please avoid long-time exposure to sunlight.

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Chapter 1: Product Overview

1.1 Product Introduction

The PaceBlade MDT-805 is a rugged Android tablet built for professional mobility across vehicle, field, and fixed-site applications.

Designed to operate reliably in demanding environments, it integrates powerful processing, robust wireless communication, and a durable industrial-grade housing.

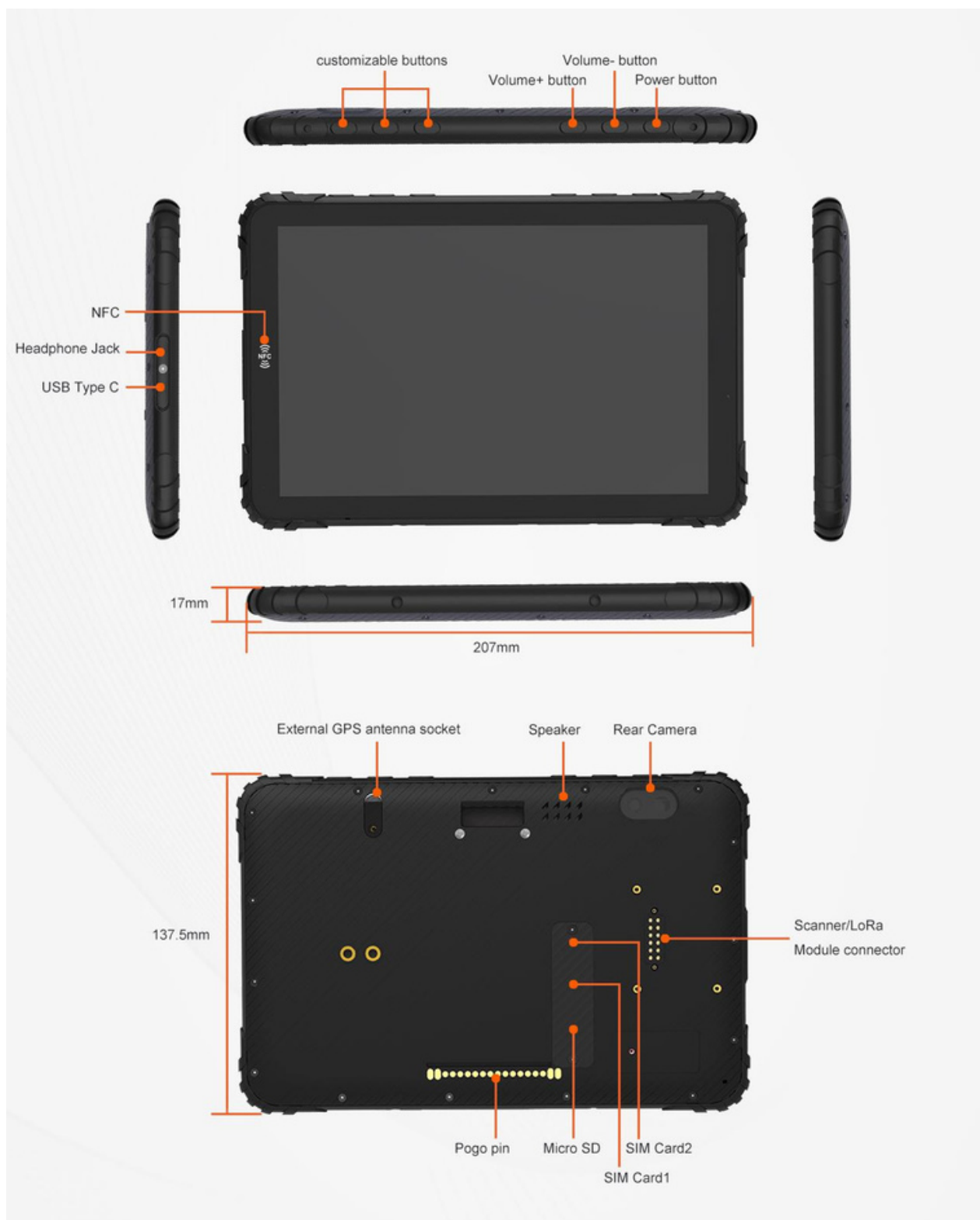
The flexible cradle-based design enables use as both an in-vehicle terminal and a docked workstation, supporting diverse operational workflows.

1.2 Key Features and Specifications

- ✖ MediaTek 64-bit octa-core processor
(2× Arm Cortex-A76 up to 2.2 GHz, 6× Arm Cortex-A55 up to 2.0 GHz)
- ✖ Android 14 operating system
- ✖ IP67-rated dust and water resistance
- ✖ Wireless connectivity support including Wi-Fi, Bluetooth, 5G, and GNSS
- ✖ Built-in 8000 mAh rechargeable battery
- ✖ 8-inch MIPI LCD display with 1280 × 800 resolution (Anti-glare coating)
- ✖ Multi-point capacitive touchscreen with 1000 Nits display
- ✖ Drop resistance up to 1.2 m (4 ft.) in accordance with MIL-STD-810H 2-in-
- ✖ 1 cradle design supporting both vehicle mounting and desktop use

1.3 Parts of the Device

This section describes the external components, buttons, and interfaces of the MDT-805.



Chapter 2: Accessories and Expansion Options

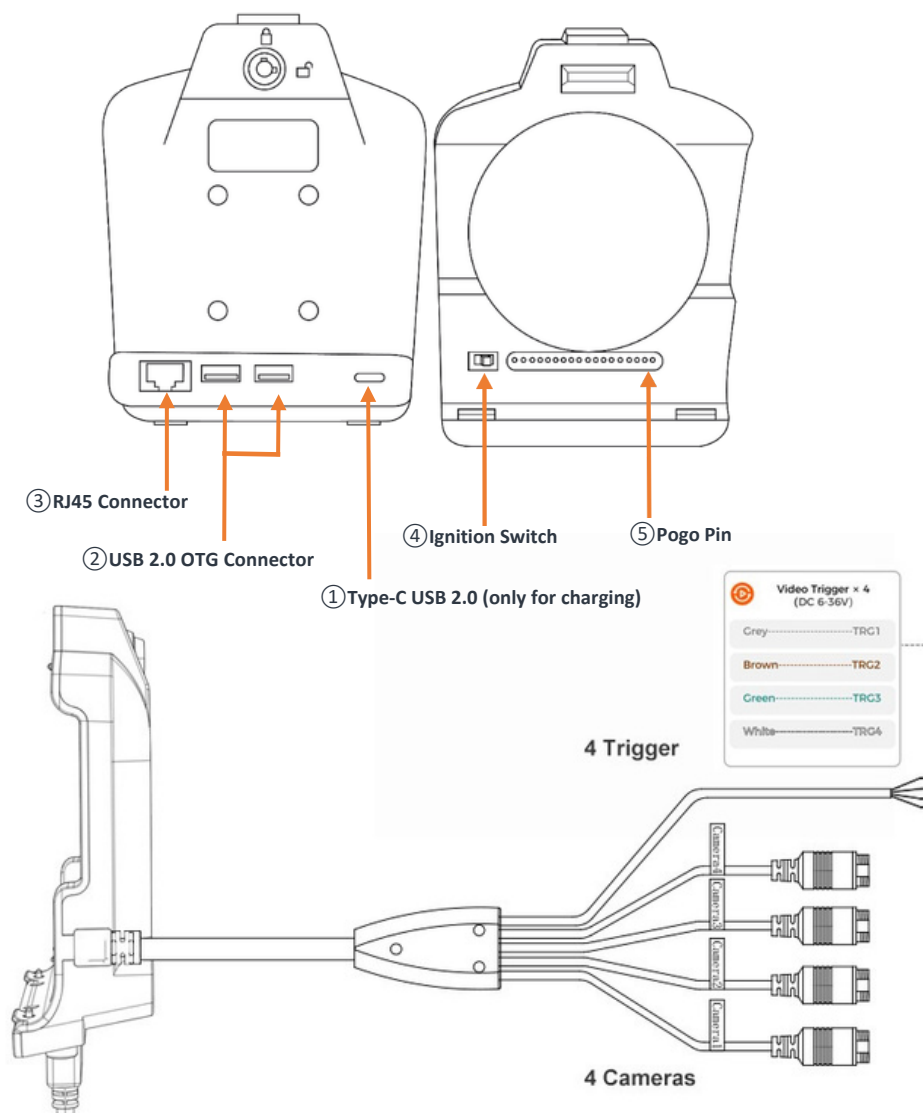
2.1 Connect Different Cradles

Summary of functions achieved by cradles and cables combination			
Links	Cradles	Cables	Features
TYPE A CRD-805 (CRD-805-TYPE-A)		CAB-801-2RS232 CAB-EX-RS232 CAB-BMW-BASIC CAB-EX-BASIC	VCC / IGN DC12~36V input 2× USB-A (OTG) 1× USB-C (Charge) 1× RJ45 (Ethernet) 2× RS232 1× RS485 4× GPIO 4× Camera (Video input) 4×Trigger
TYPE B FFC-MDT-801 (FFC-MDT-801-TYPE-B)		CAB-MD-FULL CAB-EX-FULL CAB-EX-HUB Video cable	VCC / IGN DC12~36V input 2× USB-A (OTG) 1× USB-C (Charge) 1× RJ45 (Ethernet) 2× RS232 1× RS485 4× Camera (Video input) (With Camera Hub) 4×Trigger
TYPE C BC-MDT-801 (BC-MDT-801-TYPE-C)		CAB-801-BASIC CAB-BMW-BASIC CAB-EX-BASIC	VCC / IGN DC12~36V input 1× RS232
TYPE D BC-MDT-801 (BC-MDT-801-TYPE-D)		CAB-801-BASIC CAR-801-BMW (Car charger)	Input DC 12V/24V
TYPE E FFC-MDT-801 (FFC-MDT-801-TYPE-E)		CAB-OTG-BASIC CAB-EX-BASIC	VCC /IGN DC12~36V input 3× USB-A (OTG) 1× USB-C (Charge) 1× RJ45 (Ethernet) 1× RS232
TYPE F FFC-MDT-801 (FFC-MDT-801-TYPE-F)		CAB-HUB-BASIC CAB-EX-HUB CAB-BMW-BASIC CAB-EX-BASIC	VCC / IGN DC12~36V input 2× USB-A (OTG) 1× USB-C (Charge) 1× RJ45 (Ethernet) 1× RS232 4× Camera (Video input) (With Camera Hub) 4×Trigger
TYPE G CRD-801-CAN (CRD-801-CAN-TYPE-G)		CAB-801-2RS232 CAB-EX-RS232 CAB-BMW-BASIC CAB-EX-BASIC	VCC / IGN DC12~36V input 2× USB-A (OTG) 1× USB-C (Charge) 1× RJ45 (Ethernet) 2× RS232 1× CAN bus
TYPE H CRD-801-M12 (CRD-801-M12-TYPE-H)		CAB-801-BASIC CAB-BMW-BASIC CAB-EX-BASIC M12 to RJ45 female adapter cable	VCC / IGN DC12~36V input 2× USB-A (OTG) 1× USB-C (Charge) 1× M12 connector (Ethernet) 1× RS232

TYPE A BKT-801 (BKT-801-TYPE-A)		BKT-801-BAS-02 (Waterproof connector)	VCC/IGN DC12~36V input 1× RS232
TYPE B BKT-801-BMW (BKT-801-BMW-TYPE-B)		CAB-BMW-BASIC CAB-EX-BASIC	VCC/IGN DC12~36V input 1× RS232
TYPE C BKT-801-OTG (BKT-801-OTG-TYPE-C)		CAB-EX-BASIC One USB-A OTG female connector on the cradle cable.	VCC/IGN DC12~36V input 1× RS232 1× USB-A (OTG)
TYPE D BKT-801-M12 (BKT-801-M12-TYPE-D)		CAB-LAN-01 CAB-BMW-BASIC CAB-EX-BASIC M12 to RJ45 female adapter cable.	VCC/IGN DC12~36V input 1× USB-C (Charge) 1× M12 connector (Ethernet) 1× RS232
TYPE E BKT-801-BCR (BKT-801-BCR-TYPE-E)		USB-C to C cable	1× USB-C (Charge) 1× RJ45 (Ethernet) (optional) 1× 1D/2D Barcode Scanner

2.1.1 CRD-805 Cradle

CRD-805 - FULL cradle interface



CRD-805 - FULL Cradle Features

- Vehicle Input: DC12V to 36V, ignition control with optional switch in the cradle
- PD Fast-charging AC adapter or charge input 5V/3A, 9V/2A, 12V/2A with Type-C connector. -USB 2.0 OTG Connector x 2
- RJ45 connector for Ethernet
- 4 channels camera (supported Analog, AHD720P and 1080P camera) and 4 Triggers.

◆ **Note:** The system supports connecting multiple cameras, but all connected cameras must be of the same type.

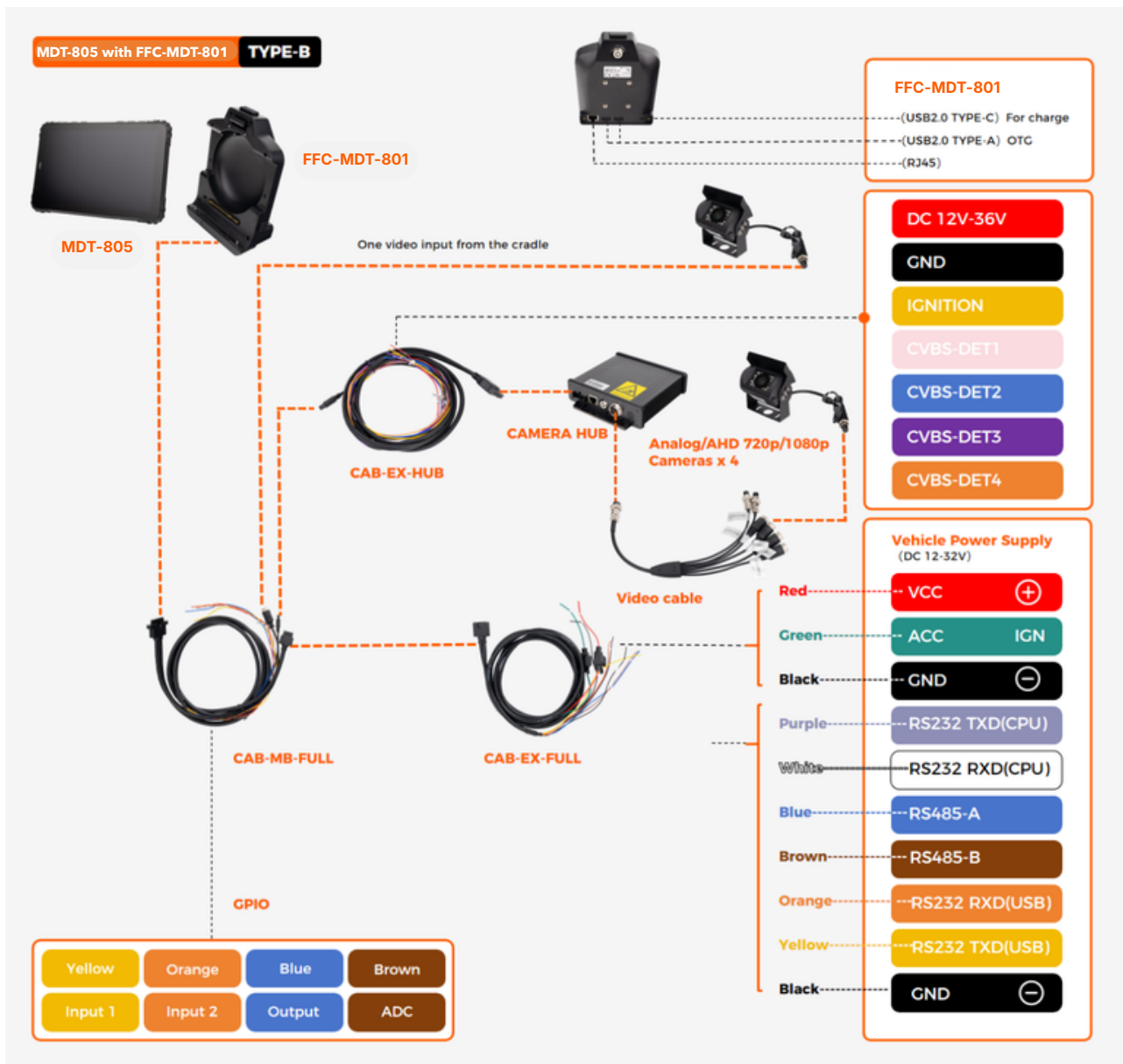
- Ignition switch: If the ignition switch is switched to the right side, charging is independent of ignition ON/OFF. If ignition switch is switched to the left side, charging is dependent on ignition ON.

2.1.2.1 FFC-MDT-801 cradle with full features cable

It provides 2 RS232 and 1 RS485.

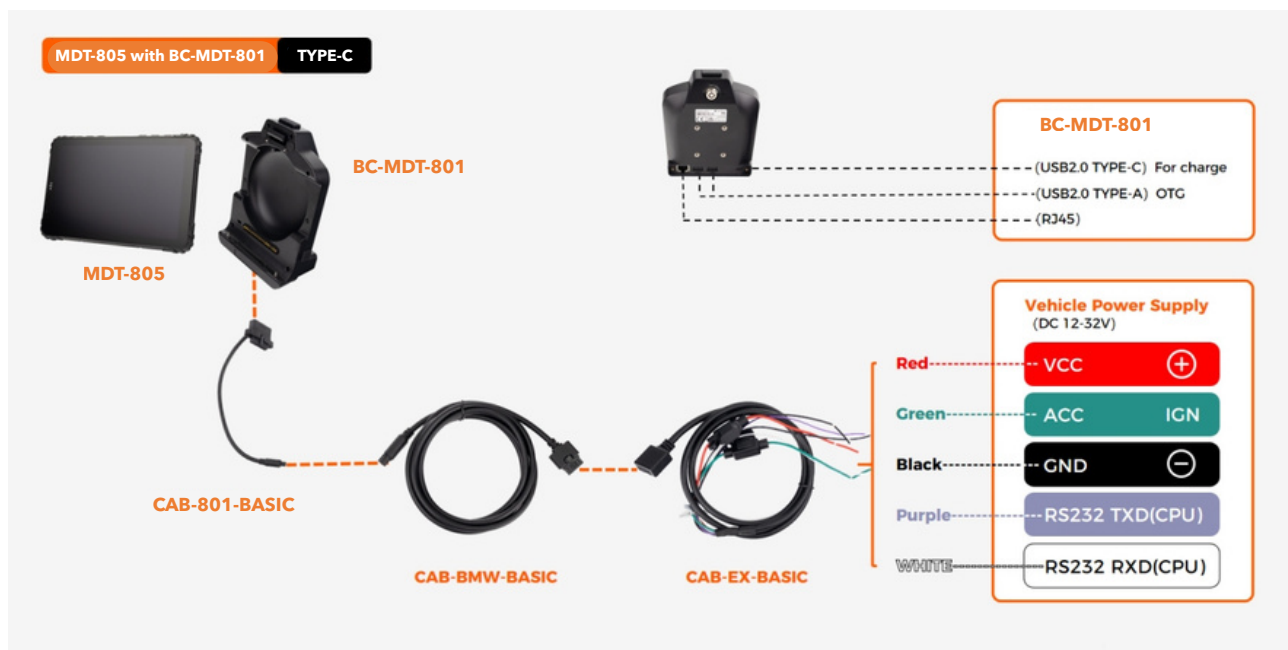
Connecting to a camera hub can provide four video inputs.

◆ **Note:** that the 4pin aviation connector and GPIO wires on the cable are not functional.



2.1.2.2 BC-MDT-801 cradle with BMW basic cables

It provides 1 RS232(CPU).

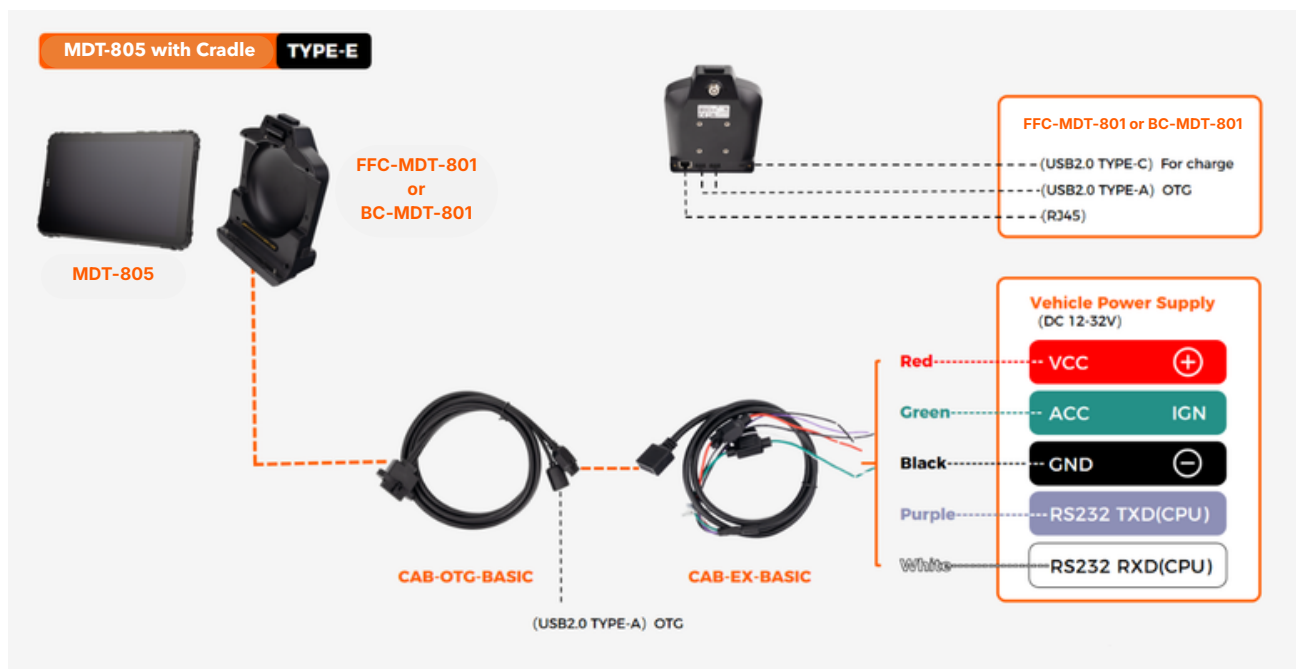


2.1.2.3 BC-MDT-801 cradle with BMW-Connector Car Charger



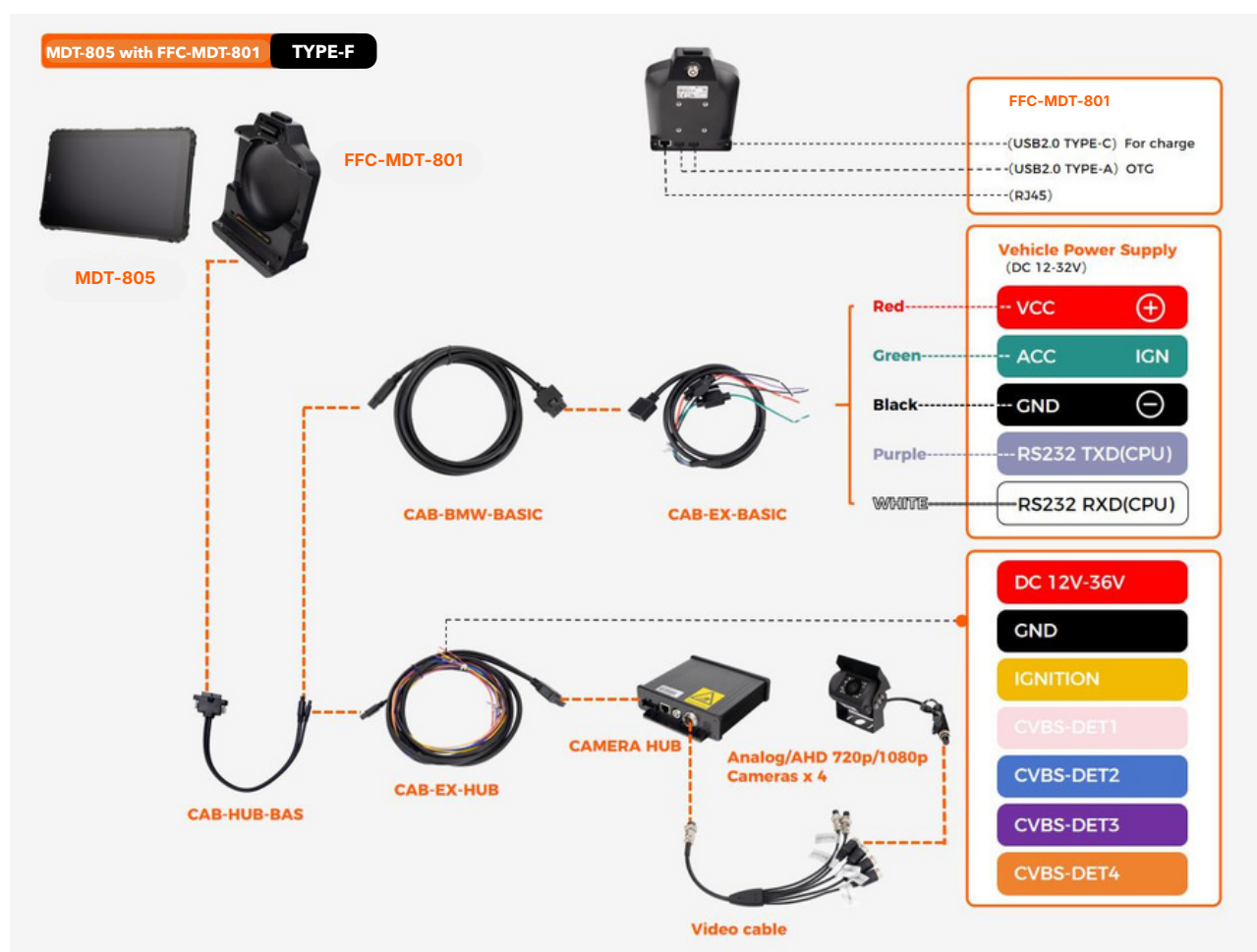
2.1.2.4 FFC-MDT-801 / BC-MDT-801 cradle with USBA OTG cables

It provides 1 RS232 and 1 USBA OTG (USB 2.0)



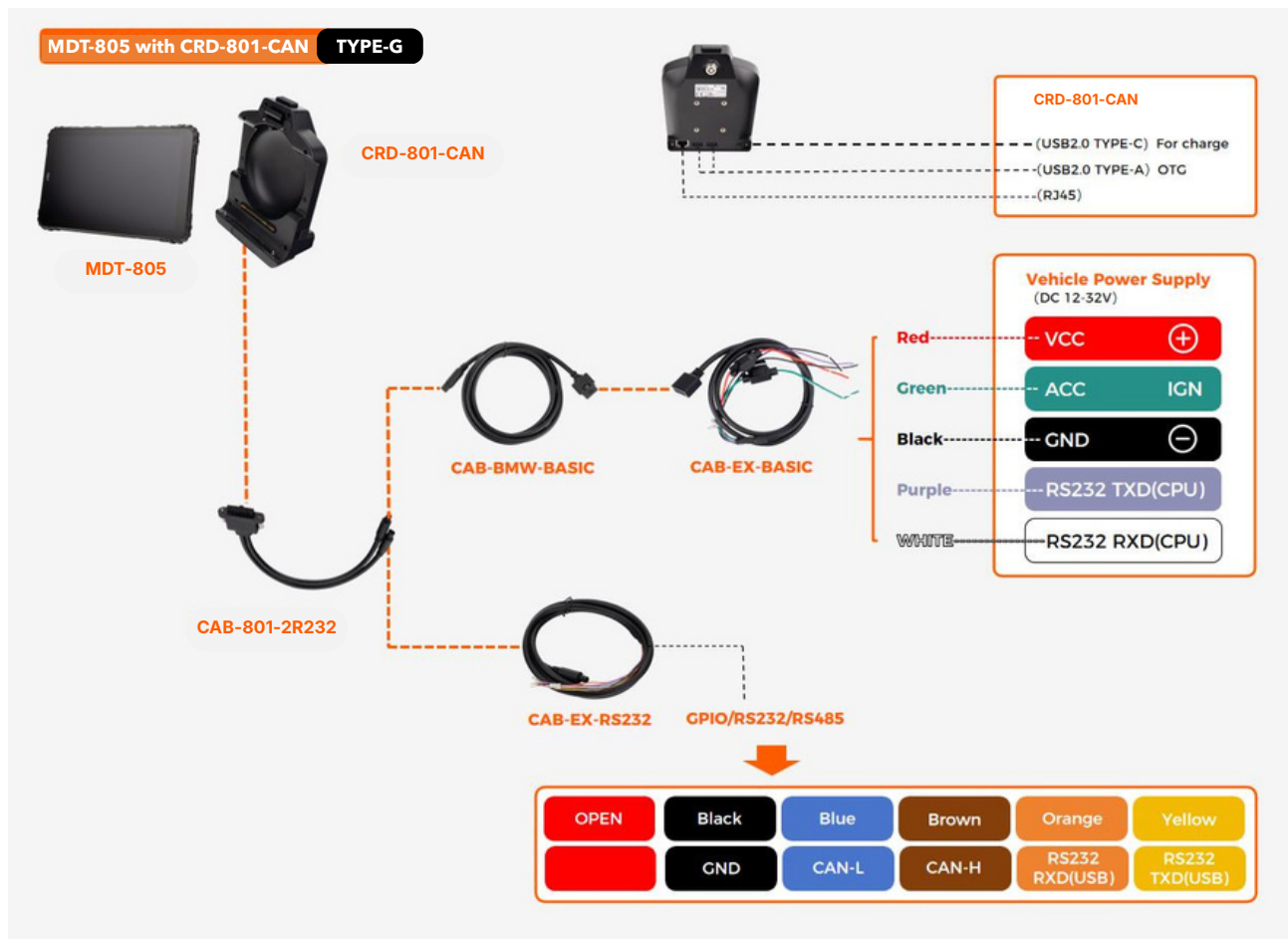
2.1.2.5 FFC-MDT-801 cradle with Camera Hub cable (CAB-HUB-BASIC)

It provides 1 RS232 and 1~4 Video input. Connecting to a camera hub can provide four video inputs and 4 triggers.



2.1.2.6 CRD-801-CAN cradle with CAB-801-2R232 cable

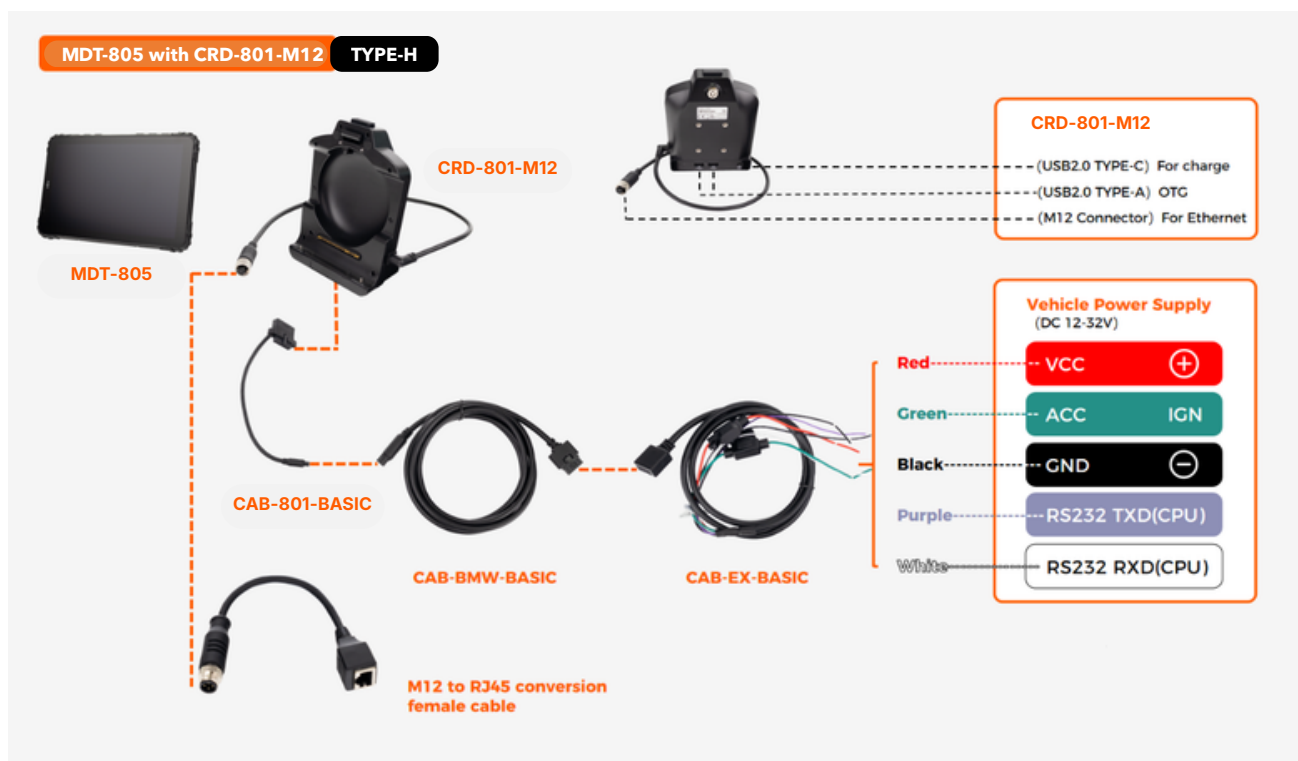
It can provides 2 RS232, 1 CAN bus.



2.1.2.7 CRD-801-M12 cradle with BMW basic cables

M12 connector for Ethernet.

It provides 1 RS232(CPU).



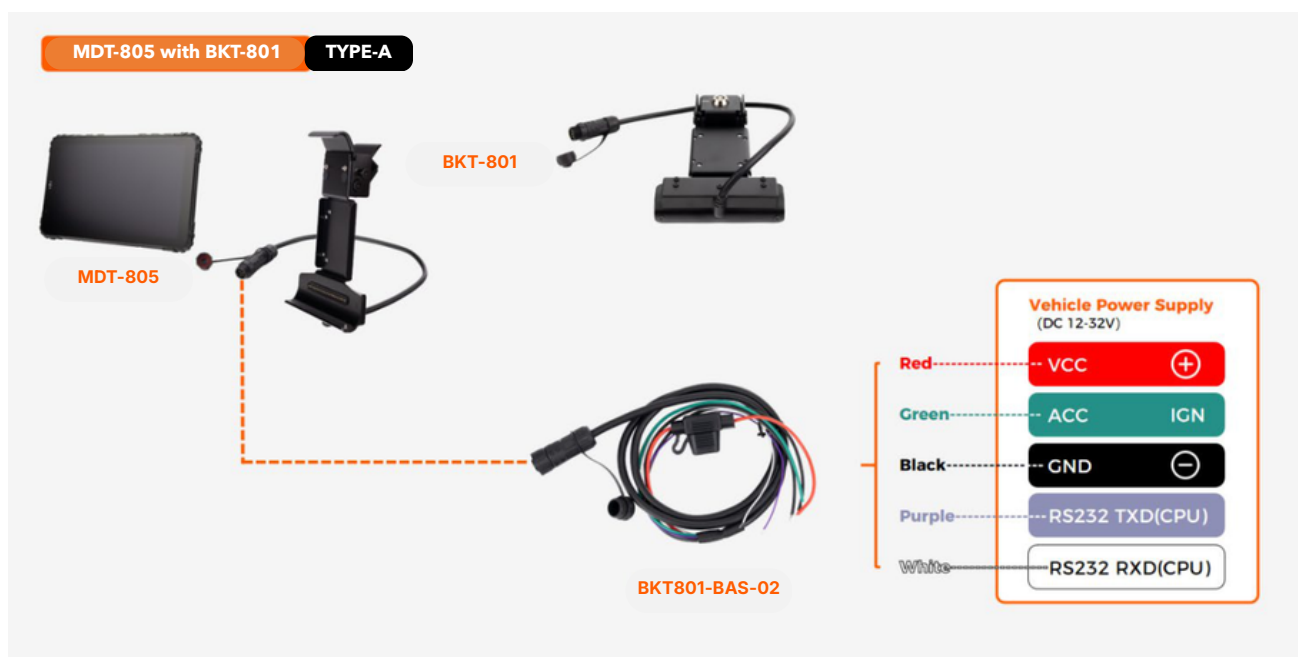
2.1.3 BKT-801 Metal Bracket

2.1.3.1 BKT-801 with waterproof cables

If you require waterproofing, you can use the BKT-801 cradle.

It provides 1 RS232.

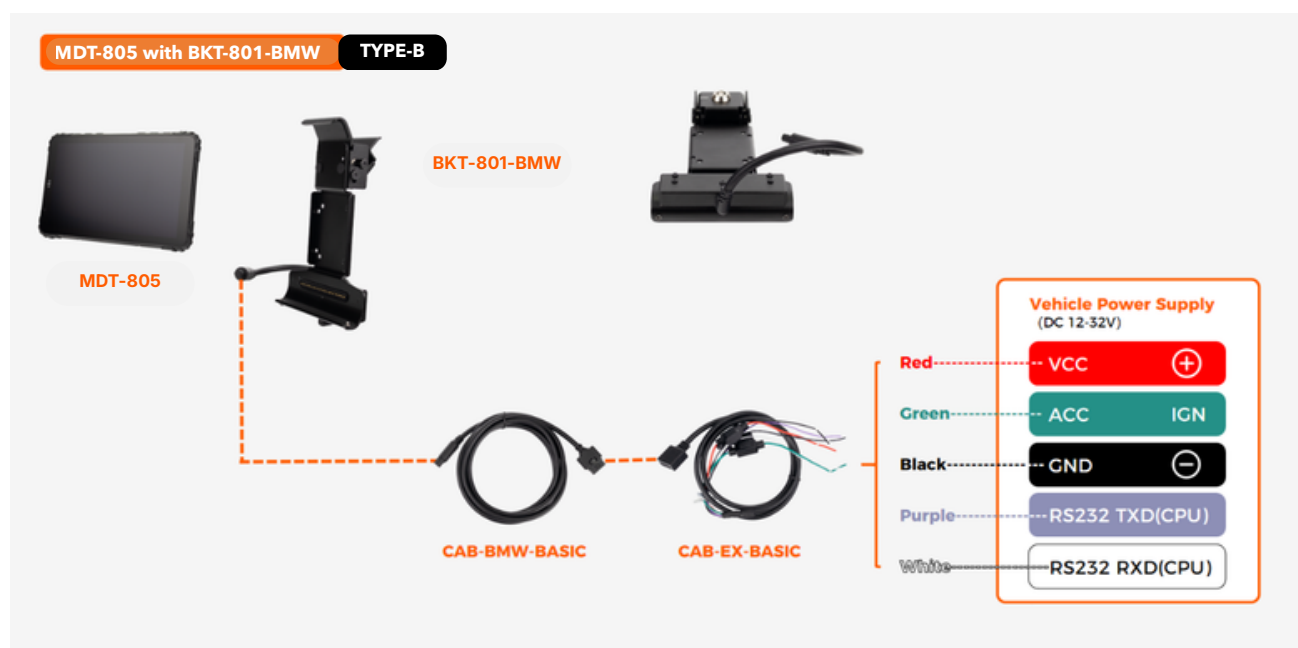
◆ **Note:** without ignition control switch in the bracket.



2.1.3.2 BKT-801-BMW with BMW basic cables

It provides 1 RS232.

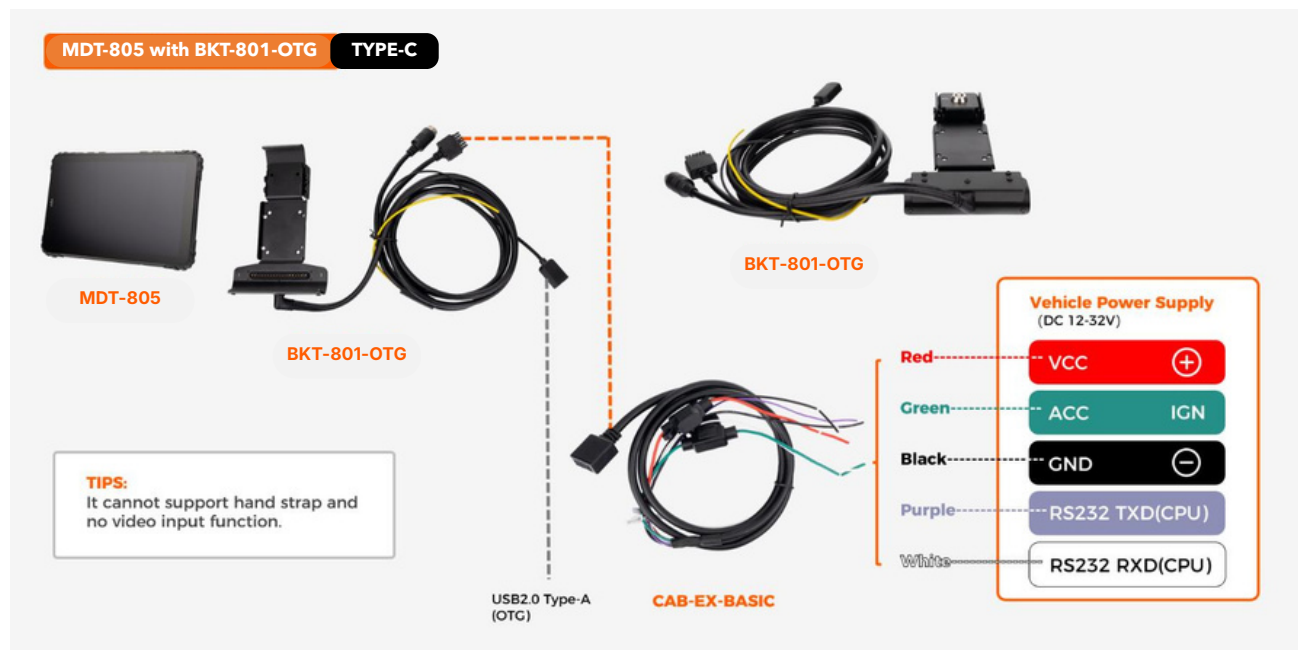
◆ **Note:** Without ignition control in the bracket.



2.1.3.3 BKT-801-OTG with USBA OTG cable

It provides 1 RS232 and 1 USBA OTG (USB 2.0)

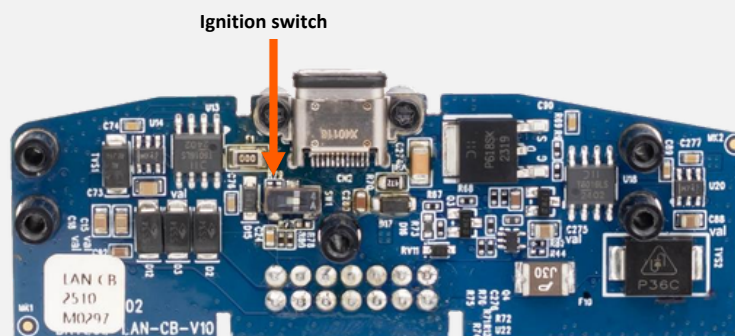
It does not support video input.



2.1.1.4 BKT-801-LAN Metal Bracket

◆ There is an ignition control switch inside the bracket.

Ignition switch: If the ignition switch is switched to the right side, charging is independent of ignition ON/OFF. If ignition switch is switched to the left side, charging is dependent of ignition ON.



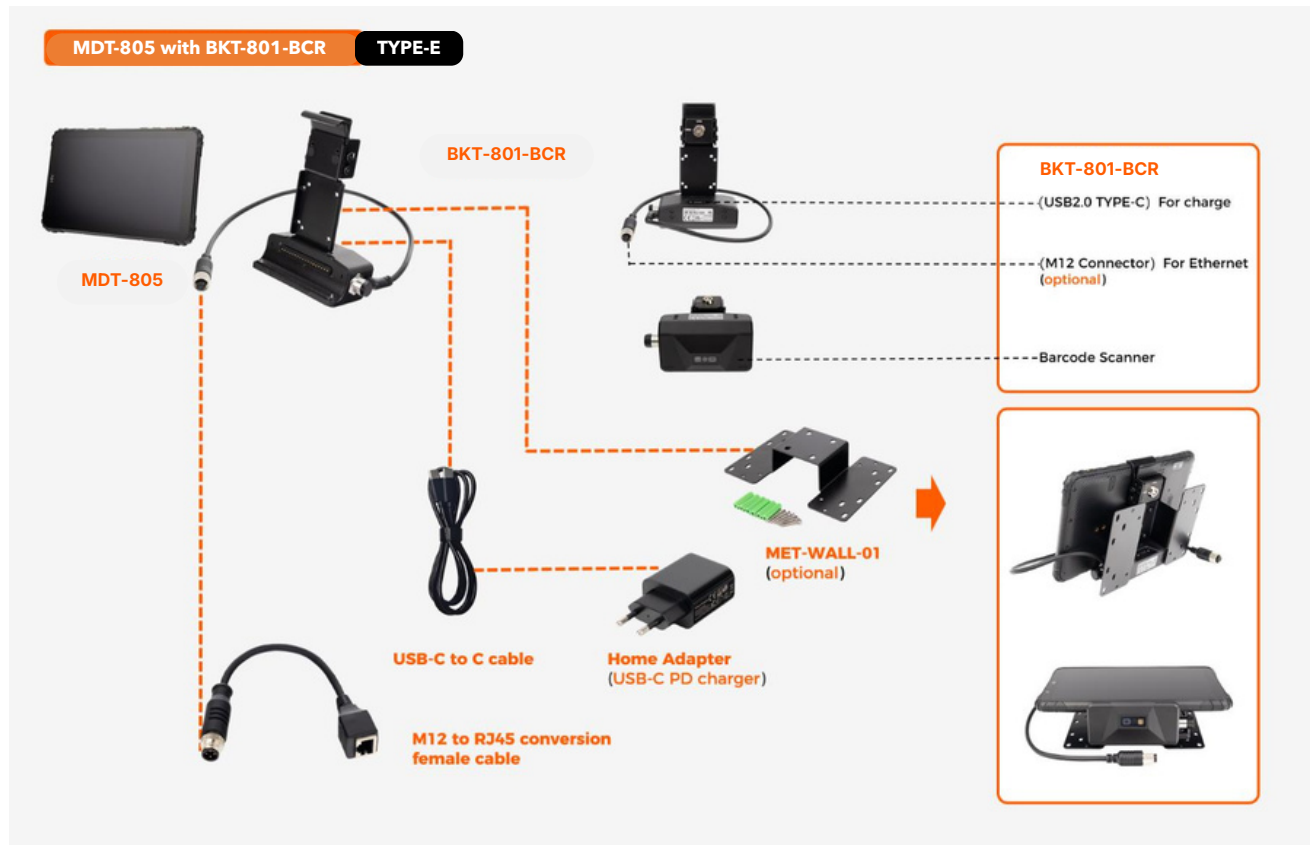
2.1.4.1 BKT-801-M12 with M12 cable

M12 connector for Ethernet.
It provides 1 RS232(CPU).



2.1.4.2 BKT-801-BCR with Barcode Scanner

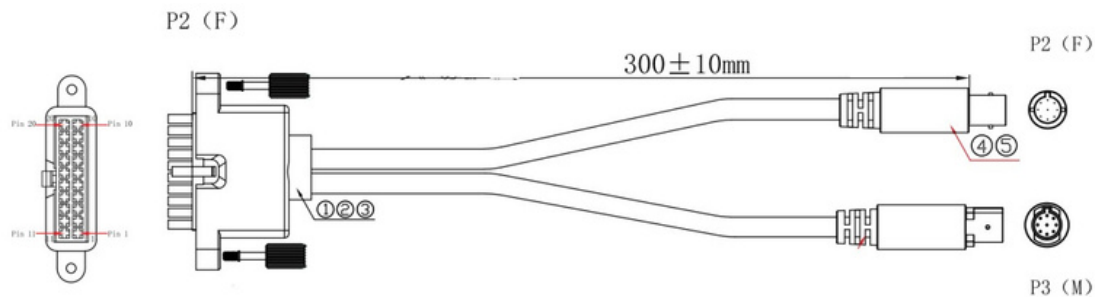
There is a 1D/2D Barcode Scanner on the cradle.
M12 connector for Ethernet (**optional**).



2.2 Cradle Cable Pin Assignment Overview

2.2.1 CAB-801-2RS232

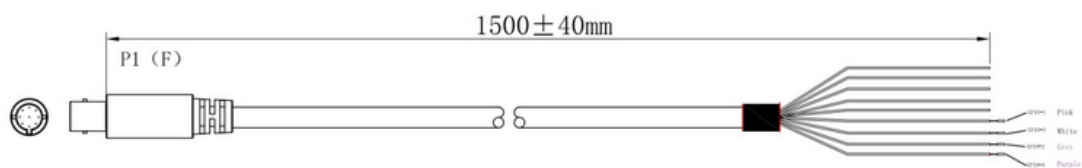
Cradle cable with GPIO, RS232 and RS485 or CAN bus.



No	Item	Definition				
P1	20pin connector	Connect to the MDT-805 full feature cradle				
P2	9pin BMW Connector (Female)	Connect to the extension cable (CAB-BMW-BASIC + CAB-EX-BASIC)				
		Pin1	Pin2	Pin3	Pin4	Pin5
		VCC 12-36V input	ACC ignition	Video Trigger	Video input	RXD (CPU)
		Pin6	Pin 7	Pin8	Pin9	
		TXD (CPU)	Shield	GND	Camera DC12V output	
P3	9pin BMW Connector (Male)	Connect to the GPIO/RS232/RS485 cable (CAB-EX-RS232)				
		Pin1	Pin2	Pin3	Pin4	Pin5
		GPIO-1 (Input 1)	GPIO-3 (Output)	RS485-A / CAN-L	RX D(U SB)	GND
		Pin6	Pin 7	Pin 8	Pin 9	
		GPIO-2 (Input 2)	GPIO-4 (ADC)	RS485-B / CAN-H	TXD(USB)	

2.2.2 CAB-EX-RS232

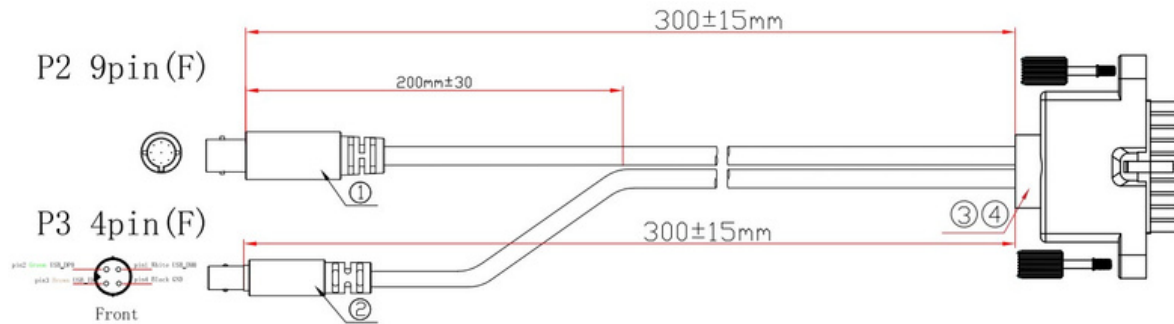
GPIO, RS232 and RS485 or CAN bus.



No	Item	Definition
P1	9pin BMW	Connect to your GPIO/RS232/RS485 devices

Connector (Female)	Pink	White	Blue	Orange	Black
	GPIO-1 (Input 1)	GPIO-3 (Output)	RS485-A / CAN-L	RXD (USB)	GND
	Grey	Purple	Brown	Yellow	
	GPIO-2 (Input 2)	GPIO-4 (ADC)	RS485-B / CAN-H	TXD (USB)	

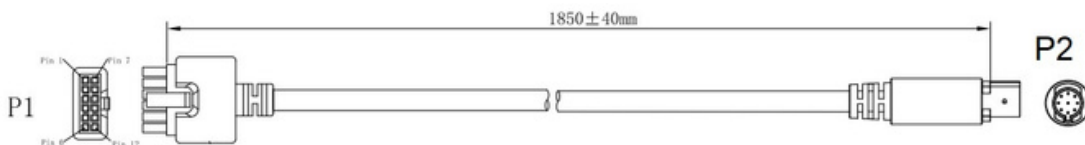
2.2.3 CAN-HUB-BASIC



No	Item	Definition				
P1	20pin connector	Connect to the MDT-805 full feature cradle				
P2	9pin BMW Connector (Female)	Connect to the extension cable (CAB-BMW-BASIC + CAB-EX-BASIC)				
		Pin1	Pin2	Pin3	Pin4	Pin5
		VCC 12-36V input	ACC ignition	Video Trigger	Video input	RXD (CPU)
		Pin6	Pin 7	Pin8	Pin9	
		TXD (CPU)	Shield	GND	Camera DC12V output	
P3	4pin BMW Connector (Female)	Connect to the camera hub extension cable (CAB-EX-HUB)				
		Pin1	Pin2	Pin3	Pin4	
		D-	D+	Detect USB-ID	GND	

2.2.4 CAB-BMW-BASIC

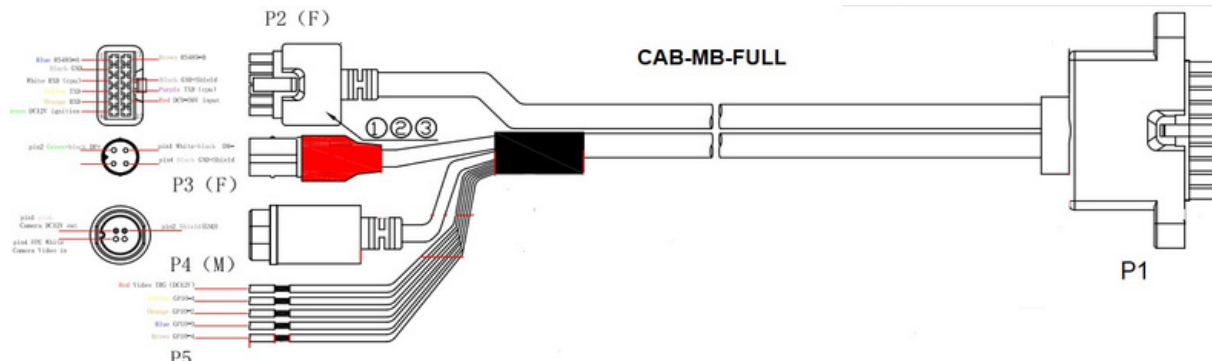
Basic features Cradle cable.



No	Item	Definition						
P1	Power Connector	Pin2	Pin3	Pin6	Pin9	Pin10	Pin11	
		GND	RXD	ACC ignition	Shield	TXD	VCC 12-36V input	
P2	9 pin BMW Connector M	Pin1		Pin2	Pin5	Pin6	Pin7	Pin8
		VCC 12-36V input		ACC ignition	RXD	TXD	Shield	GND

2.2.5 CAB-MB-FULL

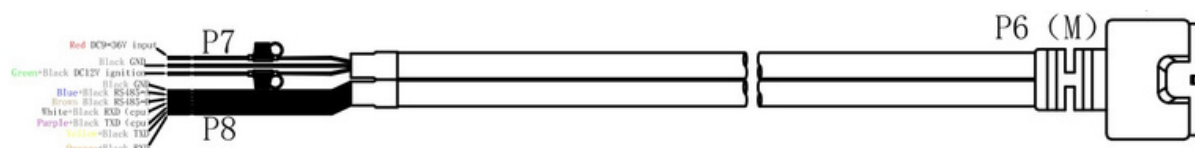
Full features Cradle cable.



N o	Item	Definition				
P 1	20pin Micro-Fit connector	Connect to the MDT-805 full feature cradle				
P 2	12pin Micro-Fit connector	Connect to the extension cable (CAB-EX-FULL)				
		Pin1	Pin2	Pin3	Pin4 RS232	Pin5
		RS485-A	GND	RS232 RXD (CPU)	TXD (USB) Pin10	RS232 RXD (USB)
		Pin6	Pin7	Pin9	RS232 TXD	Pin11
		ACC ignition	RS485-B	GND	(CPU)	VCC 12-32V input
P 3	4pin BMW Connector F	Connect to the 4pin BMW connector on the camera hub cable (CAB-EX-HUB)				
		Pin1		Pin2	Pin4	
		DM-		DP+	GND	
P 4	4 pin Circular Connector M	Connect to the camera (Support Analog, AHD720P, AHD1080P camera)				
		Pin1		Pin2	Pin4	
		DC12V output		GND	Camera video input	
P 5	GPIO Wires	GPIO-1 (Yellow)	GPIO-2 (Orange)	GPIO-3 (Blue)	GPIO-4 (Brown)	Red wire
		Input 1	Input 2	output	ADC	Video Trigger
		Input 3-32V=High Input 0-2V=Low		Output the voltage from the Tablet. 200mA current.	Analog Digital Converter. Read the Input voltage.	

2.2.6 CAB-EX-FULL

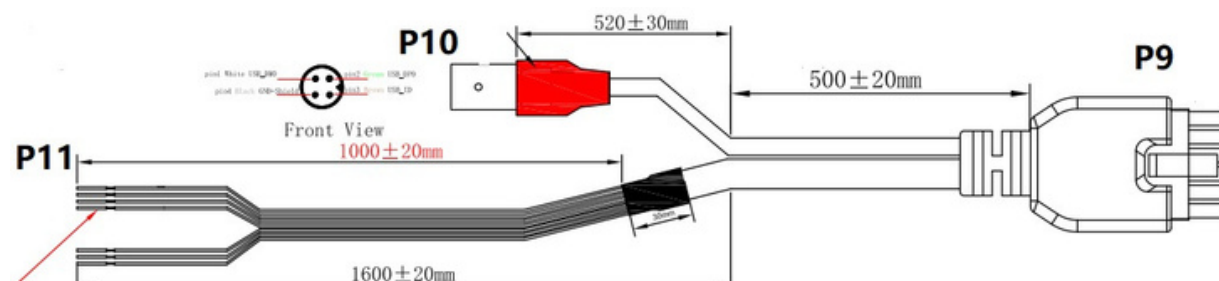
Cradle extension cable.



No	Item	Definition						
P6	12pin Micro-Fit connector	Connect to the P2 connector on the cradle cable (CAB-MB-FULL)						
P7	Power Supply wires	Connect to the vehicle's battery.						
		Red	Green		Black			
		VCC12-36V input	ACC ignition		GND			
p8	Serial port wires	1 x RS485, 2 x RS232 (White/Purple RS232 same as MDT-801/LDT-101 serial port)						
		Blue	Brown	Yellow	Orange	White	Purple	Black
		RS485-A	RS485-B	TXD(USB)	RXD(USB)	RXD(CPU)	TXD(CPU)	GND

2.2.7 CAB-EX-HUB

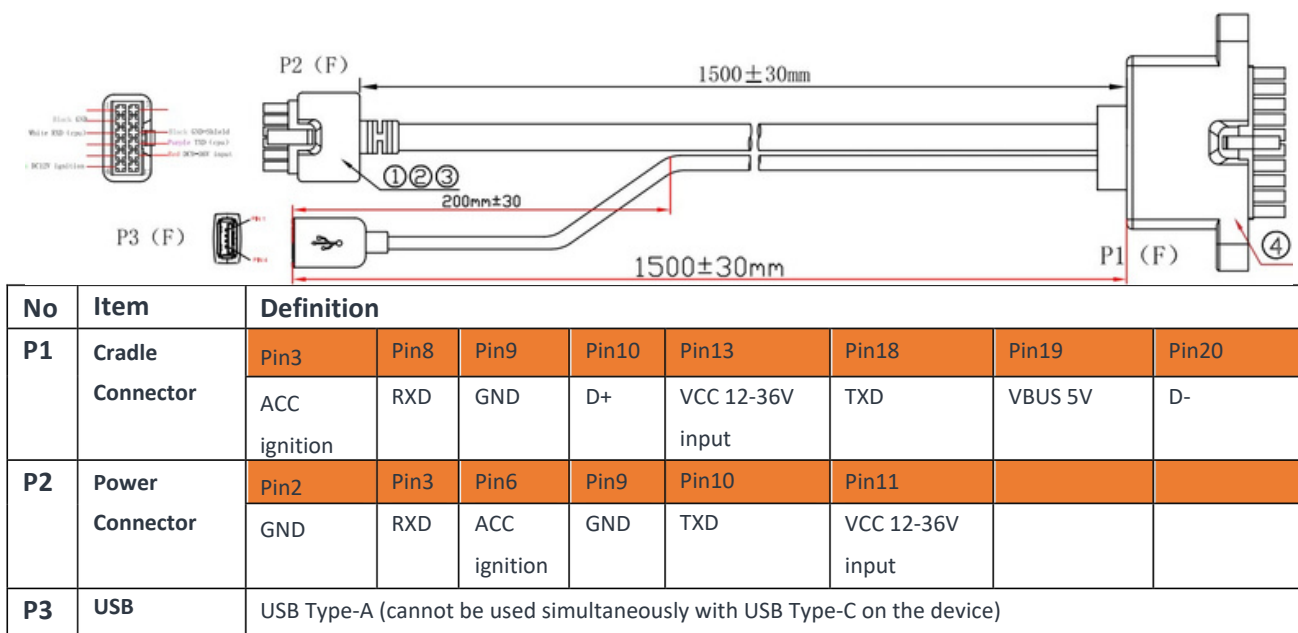
Camera hub cable.



No	Item	Definition						
P9	12pin Micro-Fit connector	Connect to the Camera Hub HH421.						
P10	4pin BMW Connector M	Connect to the 4pin BMW connector on the full feature cradle cable (CAB-MB-FULL).						
		Pin1	Pin2	Pin3	Pin4			
		DM-	DP+	ID	GND			
P11	Trigger wires	4 channels trigger for camera.						
		Pink	Blue	Purple	Orange	Black	Yellow	Red
		CVBS_DET1	CVBS_DET2	CVBS_DET3	CVBS_DET4	GND	ACC ignition	VCC 12-36V input

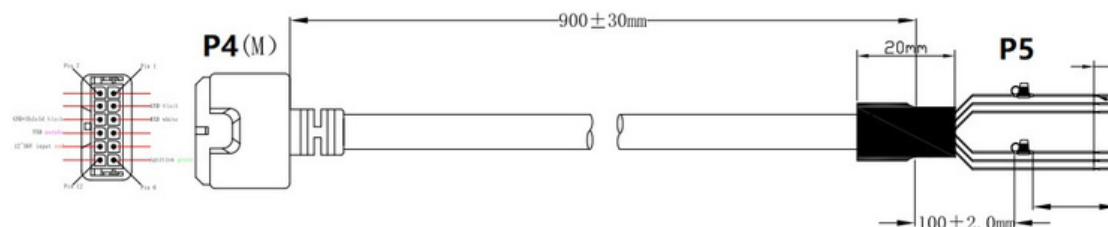
2.2.8 CAB-OTG-BASIC

Basic features Cradle cable.



2.2.9 CAB-EX-BASIC

Basic features Cradle extension cable.

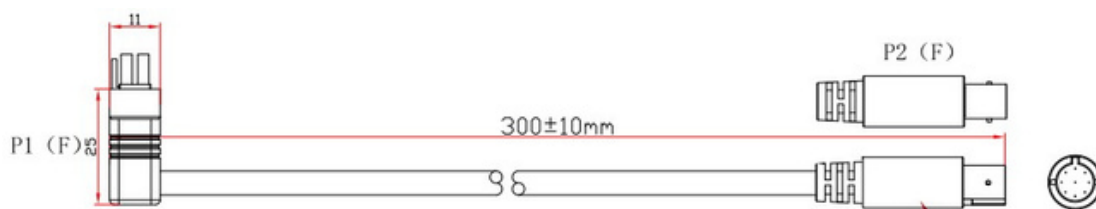


No	Item	Definition
P4	12pin Micro-Fit connector	Connect to the basic features cradle cable P2 connector.
P5	Power Supply and Serial port wires	It can be connected to the vehicle's battery.
		Red Green Black White Purple
		VCC 12-36V input ACC ignition GND RXD TXD

◆ Note: These two basic feature cables can also be used for a full features cradle.

2.2.10 CAB-801-BASIC

L-Shape cradle cable.

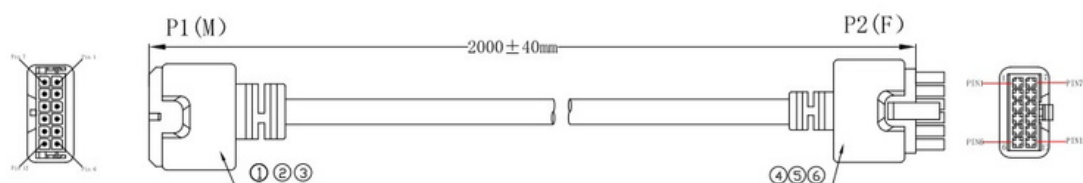


No	Item	Definition					
P1	Cradle Connector	Pin1	Pin2	Pin3	Pin8	Pin9	Pin11
		Shield	Video Trigger	ACC ignition	RXD	GND	Video input
		Pin12	Pin13		Pin18		
		Camera DC12V output	VCC 12-36V input		TXD		
P2	9 pin BMW Connector F	Pin1		Pin2	Pin3	Pin4	
		VCC 12-36V input		ACC ignition	Video Trigger	Video input	
		Pin5	Pin6	Pin 7	Pin8	Pin9	
		RXD	TXD	Shield	GND	Camera DC12V output	

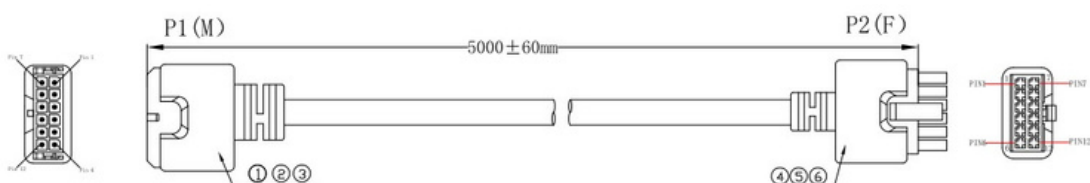
2.2.11 CAB-EX-2M/ CAB-EX-5M

Molex to Molex 2 meter and 5 meter extension cables.

CAB-EX-2M



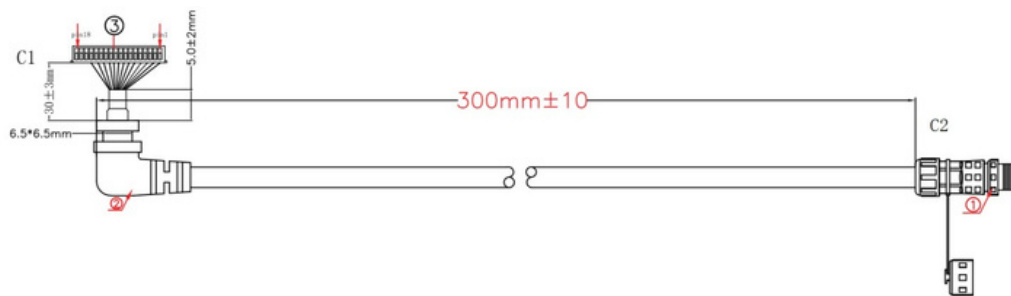
CAB-EX-5M



No	Item	Definition							
P1	12pin Molex Male	Pin2	Pin3	Pin4	Pin5	Pin6	Pin9	Pin10	Pin11
		GND	RXD (CPU)	TXD (USB)	RXD (USB)	ACC IGN	Shield	TXD (CPU)	VCC DC12-36V input
P2	12pin Molex Female	Pin2	Pin3	Pin4	Pin5	Pin6	Pin9	Pin10	Pin11
		GND	RXD (CPU)	TXD (USB)	RXD (USB)	ACC IGN	Shield	TXD (CPU)	VCC DC12-36V input

2.2.12 BKT-801-BAS-01

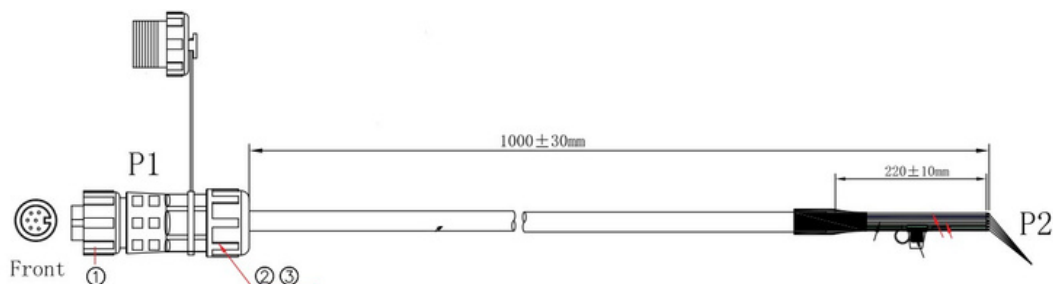
Basic feature cable with waterproof connector.



No	Item	Definition					
C1	Housing 18pin	Pin6	Pin7	Pin10	Pin12	Pin17	Pin18
		TXD	RXD	ACC ignition	VCC input 12-36V	GND	GND
C2	6pin Waterproof Connector M	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6
		GND	TXD	GND	RXD	ACC ignition	VCC

2.2.13 BKT-801-BAS-02

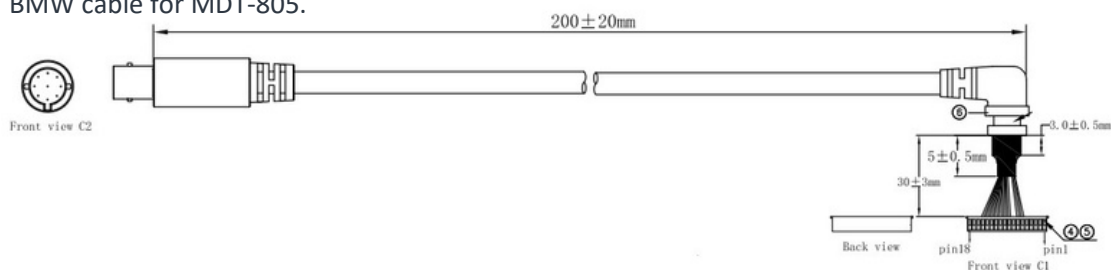
Basic feature cable with waterproof connector for MDT-805.



No	Item	Definition					
P1	6pin Waterproof Connector F	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6
		GND	TXD	GND	RXD	ACC ignition	VCC
P2	Wires	Black	Purple	Black	White	Green	Red
		GND	TXD	GND	RXD	ACC ignition	VCC

2.2.14 BKT801-BAS-BMW

BMW cable for MDT-805.



No	Item	Definition			
C1	Housing 18pin	Pin7	Pin9	Pin10	Pin11
		VCC input 12-36V	ACC ignition	Camera TRG	Camera input

		Pin12	Pin13	Pin14	Pin15
		RXD	TXD	Shield	GND
C2	BMW Connector M	Pin1	Pin2	Pin3	Pin4
		VCC input 12-36V	ACC Ignition	Camera TRG	Camera input
		Pin5	Pin6	Pin7	Pin8
		RXD	TXD	Shield	GND

2.3 Accessories

2.3.1 Cradles



CRD-805

Full feature cradle (with max 4 video input)



FFC-MDT-801

FULL full feature cradle (Ethernet, OTGx2)



CRD-801-CAN

CAN bus Full feature cradle (Ethernet, OTGx2)



CRD-801-M12

Full feature cradle (Ethernet with M12 cable, OTGx2)



BC-MDT-801

Basic feature cradle



BKT-801-BMW

with BMW connector



BKT-801

with waterproof connector

Metal bracket cradles only: Vehicle charging 12-24V input, IGN, GND and 1 RS232.



BKT-801-M12

with M12 cable (for ethernet) and another M12 connector (for Vcc, IGN, GND and RS232)



BKT-801-BCR

metal bracket with 1D/2D barcode at the bottom

2.3.2 Expansion Modules



- **Barcode Scanner:** MDT-LDT-X01-BCR
(SE4107 barcodemodule)
- **LoRa Module:**
LoRa-E220
(Frequency Range: 850.125~930.125MHz)
Support multiple transmission methods

MDT-LDT-X01-LOR
(For temperature sensor)
- **Pressure sensor:** MOD-PRE-01
(Air pressure sensor)
- **RS232 module:** MOD-RS232-01
- **RFID LF Reader:** MOD-LF-01
(support 125kHz/134.2kHz)

2.3.3 Chargers



ADA-HOME-01
Quick charge home adapter



ADA-CAR-01
Car charger

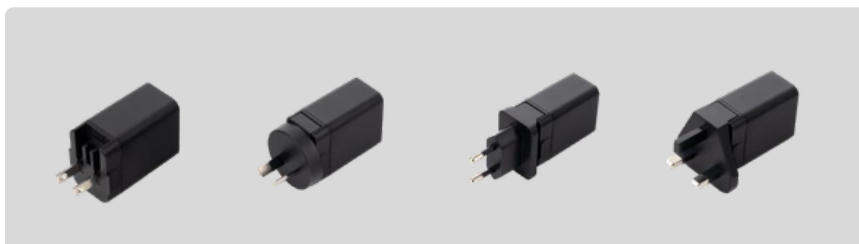


MDT-LDT-X01-MCC



ADA-HOME-02

(Quick charge home adapter with optional plug)



with US plug

with AU plug

with EU plug

with UK plug

2.3.4 Other Accessories



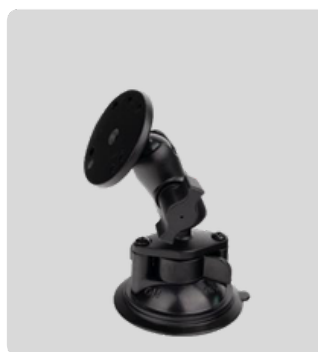
PB-SCM

(2 x round plate, 6cm arm)



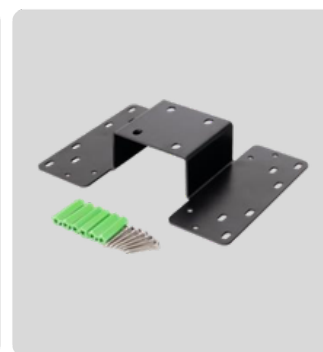
PB-SCM2

(2 x round plate, 9cm arm)



PB-SUM

(1 x round plate, 6cm arm,
suction cup)



MET-WALL-02

wall mount plate



MDT-801-EA

external GPS antenna
(with L-shape cable)



MDT-801-EA2

conversion cable
(MMCX to SMA female)



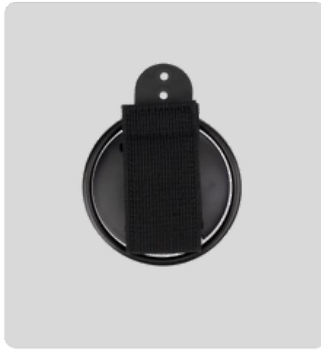
MDT-801-CAP

Sunshield Cap to attach
to the tablet and block
sunlight



MDT-801-CASE

Ultra protection case (not
compatible with sunshield
and module)



STR-HAND-01

Hand strap



MET-BOT-01

Bottom metal plate



MDT-801-SPR-GAG

7H glass screen protector (Anti-Glare)



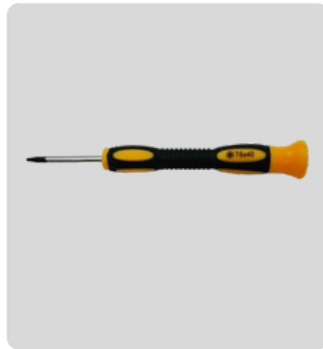
PB-101-SP

Stylus pen, tether and holder



ACC-WALKIE-01

Walkie talkie



SCREW-01

Screw driver for SIM card cover



BAG-80X-01

Carry bag



BAG-80X-02

Chapter 3: Getting Started

3.1 Power On/Off and Sleep/Wake

This chapter is describing how to power on/off the device, put the device into sleep mode (screen saver) and how to execute a force restart. Proper operation of power on/off the device will be beneficial to ensure the stability of the system. The device status indicated by the color of the indicator is as described in the following table for the standard.

Table 3.1.1 Indicator color and device status table

LEDs Behavior	Device Status
Red light on	Charging
Green light on	Fully charged
Light off	High temperature causes stop charging.
Red light on	High temperature causes shutdown.
Red or Green light blinking	Notification (Sleep when charging)

1. Power on the Device

- Power on by pressing the power button: Long press the power button for more than 2 seconds until the boot screen is displayed. It needs around 20 seconds to start the system.
- Power consumption during operation: 15W (typical).

2. Power off the Device

- Power off by pressing the button: In the status of working on the device desktop, long press the power button for more than 2 seconds until the shutdown prompt pop-up then click the "Power off" option.
- The consumption during power off (with docking station): around 250mW.

3. Sleep and Wake the Device

- Auto sleep, the sleep time can be set up in the settings.
- Short press button to sleep.
- Short press to wake.
- Wake up by ignition ON.

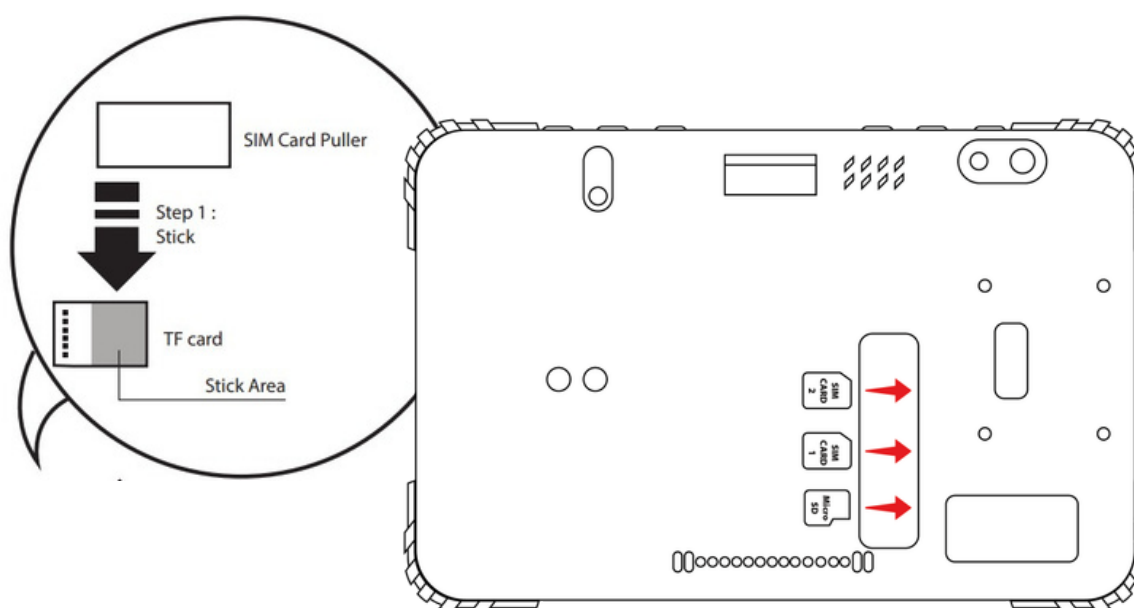
4. Restart the device

Restart by pressing the button: In the status of working on the device desktop, long press the power button for more than 2 seconds until the prompt pop-up then click the "Restart" option.

3.2 Installing Micro SD Card and SIM Card

To install the Micro SD card and/or Nano SIM card.

- Find the Nano SIM card slot and the Micro SD card slot. The following graphics illustrates the correct cards orientation.
- For an easy way of removing the Nano SIM card and Micro SD card from the inside card slot, please use the Nano SIM card and Micro SD card tape as shown in the illustration.
- SIM card and Micro SD card cover can be locked by screws in preventing from loss or theft.



3.3 Charging the Battery

The battery is built-in and cannot be removed by the user.

The battery is partially drained during the transportation. Make sure to charge the battery to full when you are charging it for the first time.

Tip:

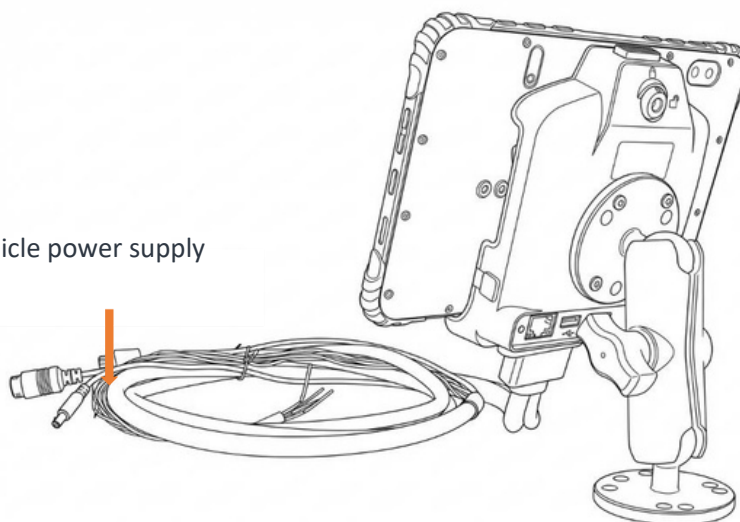
In order to ensure the life and performance of the battery, if your tablet has been stored in the warehouse for more than three months, it is recommended to charge the battery every three months.

3.4 Charging via Vehicle Power Supply

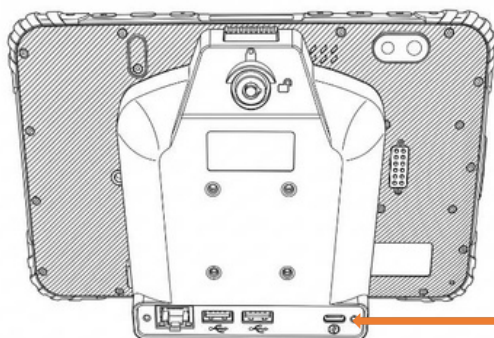
To charge the battery with the vehicle power supply:

- a) If the device comes with an optional cradle, then put the tablet on the cradle, connect the cradle to the vehicle power supply.

Plug into vehicle power supply



- b) The MDT-805 could be charged by a PD fast-charging Adapter or car charger (5V/3A,9V/2A,12/2A) by Type C to C USB cable.



Connect to AC adapter or Car charger (the cradle may not be able to charge if you only use the standard 5V/2A adapter).

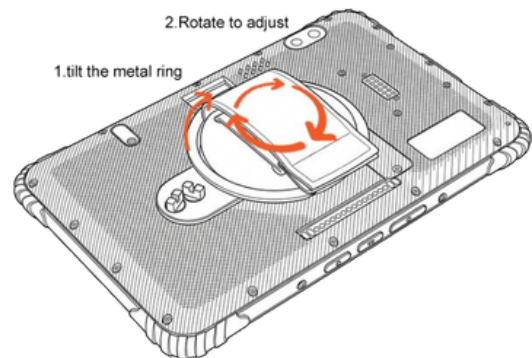
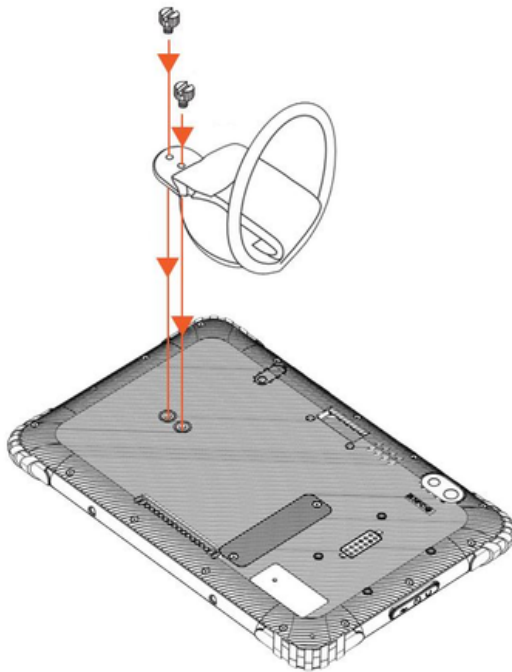
Warning:

Please ensure that the input voltage of the cradle is within the range of 12V~36V. If the input voltage of the cradle is outside this range, the MDT-805 may be unable to charge or might get damaged. This might result in causing the warranty to be invalid.

Chapter 4: Hand Strap and Carrying Options

4.1 Hand strap

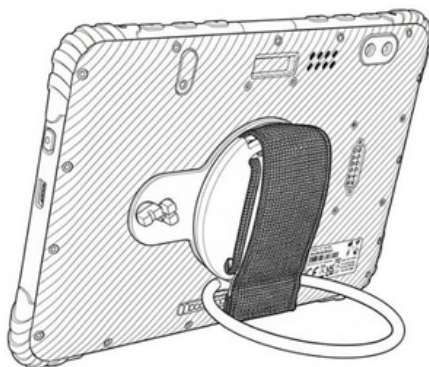
1) How to install



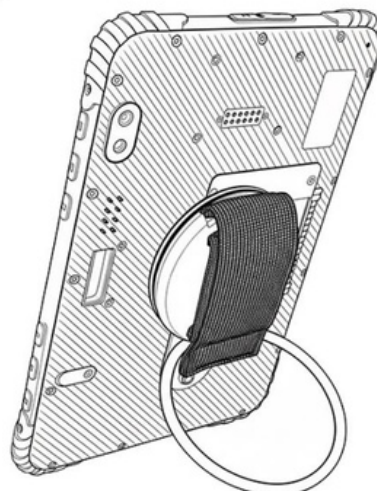
2) How to use

Easy to carry

1 Horizontal viewing stand

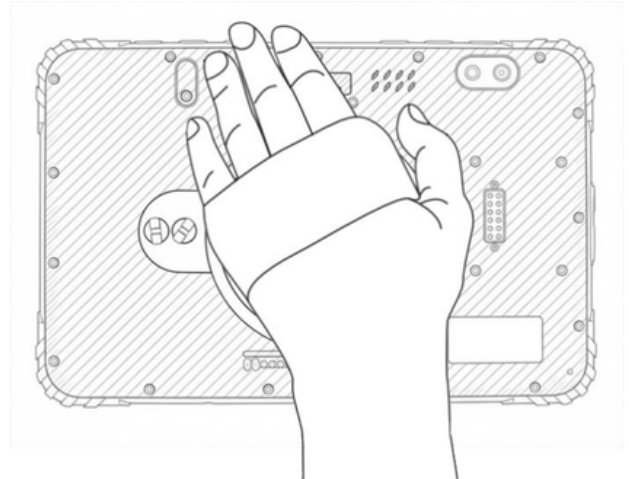
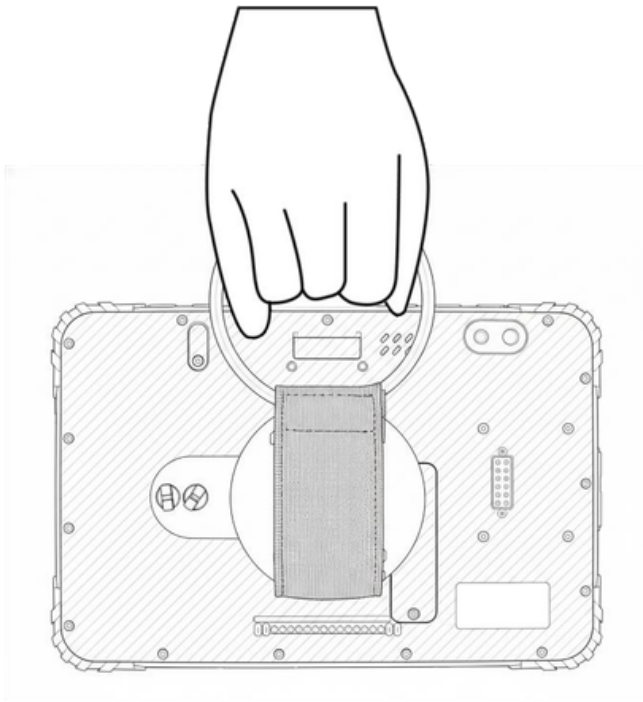
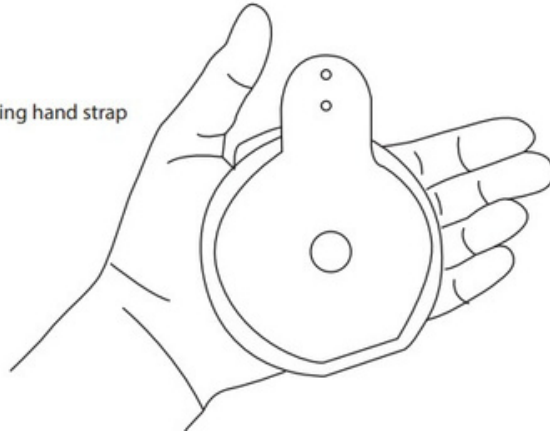


2 Vertical viewing stand



3

Adjustable viewing hand strap



4.2 Shoulder strap mode

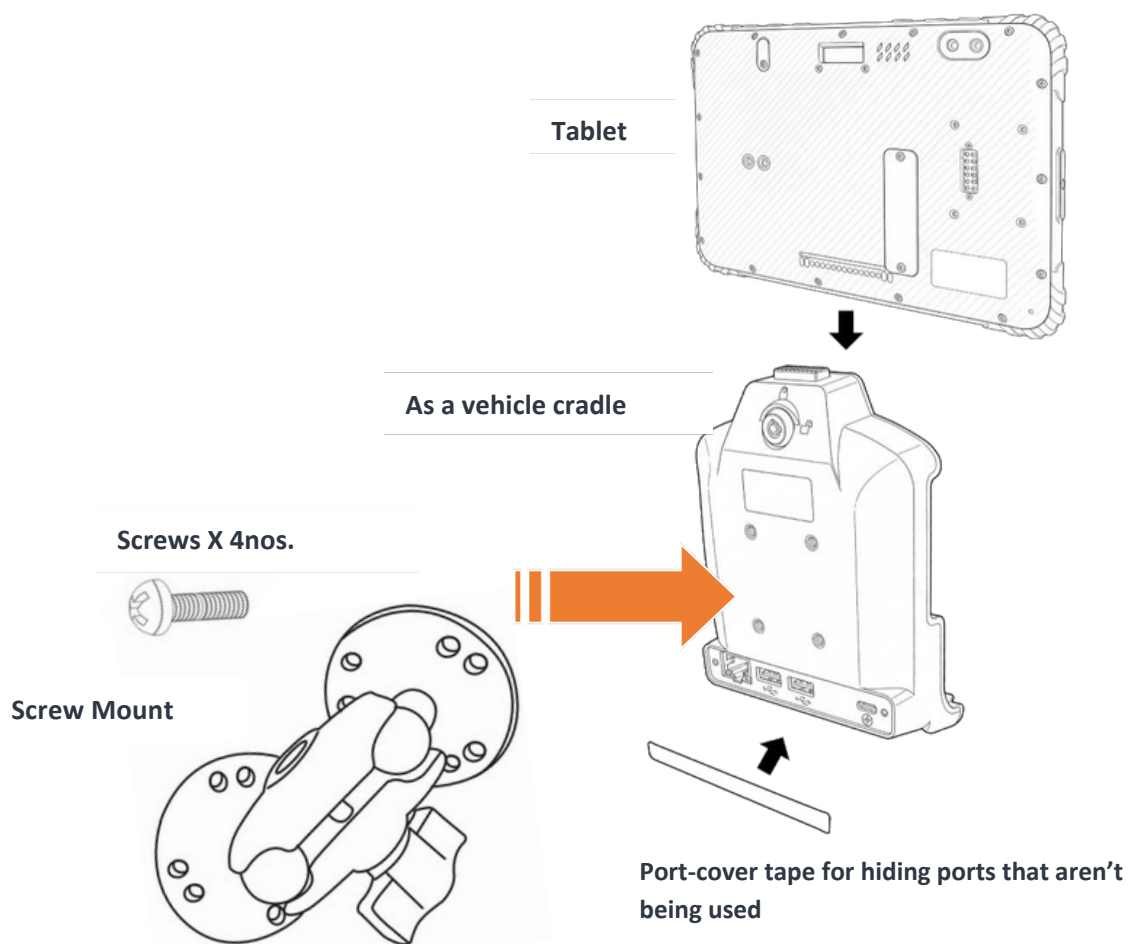


Chapter 5: Cradle Usage Instructions

5.1 Using as a Vehicle Cradle

5.1.1 Mounting the Screw Mountand Cradle

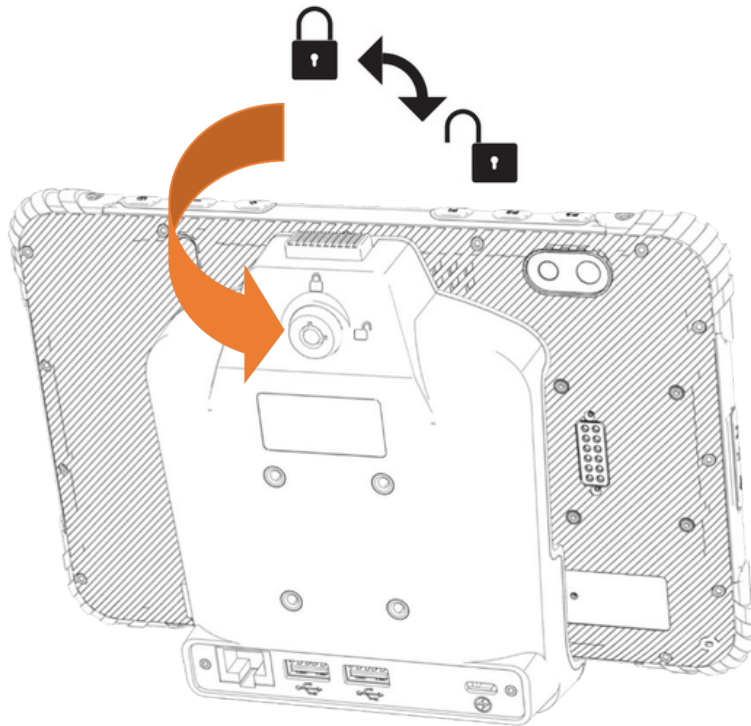
Assemble with cradle (Vehicle cradle)



For full-feature vehicle cradle or desktop dock, port cover tape can be used to hide ports that aren't being used.

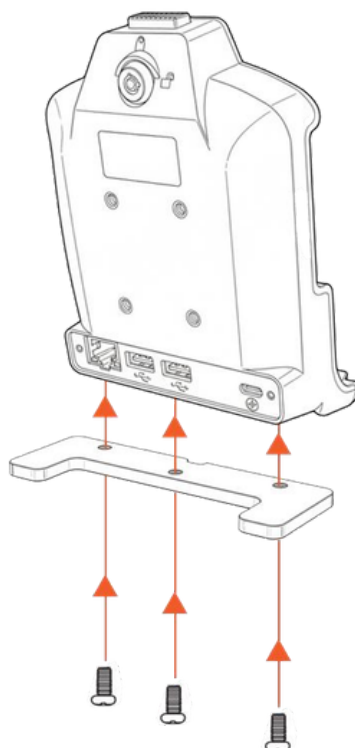
5.1.2 Locking Device & Unlocking device

Insert the key to lock or unlock the device

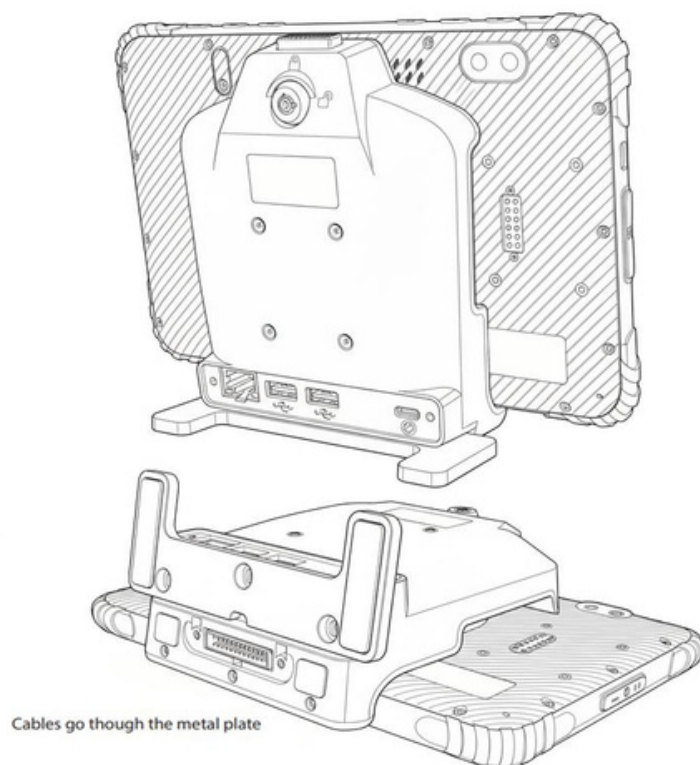


5.2 Using as a Desktop Dock Station

5.2.1 Install the Metal Stand



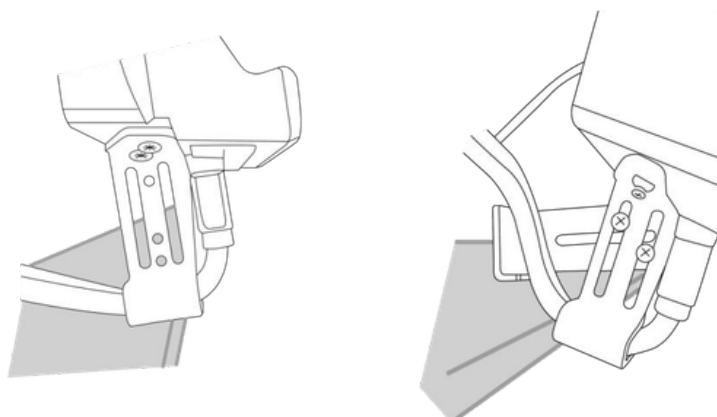
5.2.2 Assemble with cradle (Desktop dock station)



5.2.3 Fixed the cable

When installing in the vehicle, please use below metal parts, it has 2 purposes.

1. Streamline the cable toward the rear side.
 2. PaceBlade strongly recommends to use these metal parts. They will provide extra support against vibration.
- There are a few options regarding installation. Please click on the below links to see how you can do this.



The length can be adjusted from 50mm to 80mm.

https://drive.google.com/file/d/1ybp_Ji3AL1t94PQ_KVtJO9mk_J8UiY8Q/view?usp=sharing

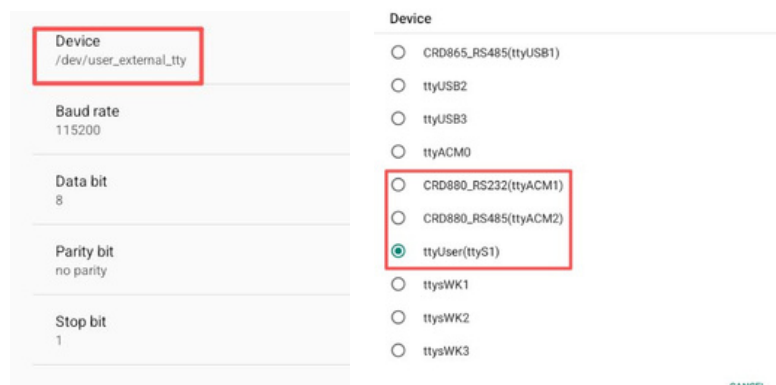
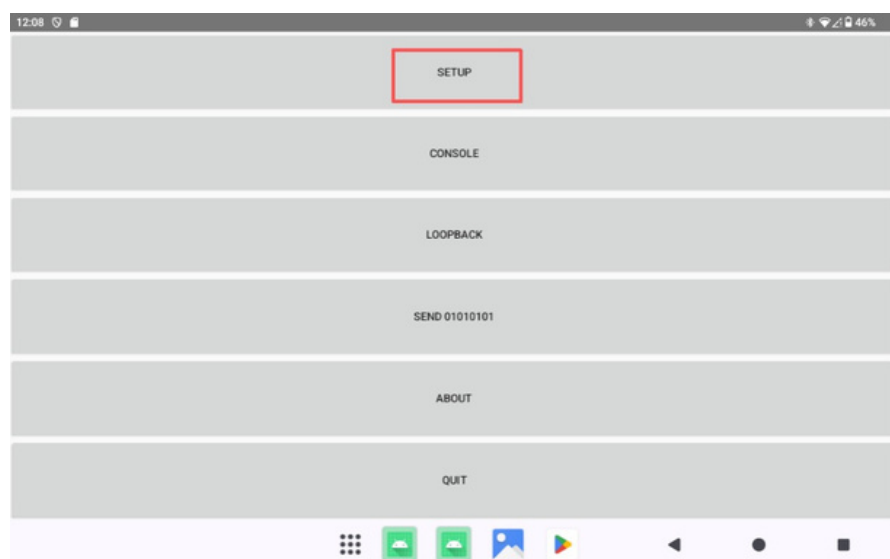
<https://drive.google.com/file/d/1etWxYVJcbXDs8J-GP0dq8IVuBiYc0t3S/view?usp=sharing>

Chapter 6: Using Hardware Interfaces

6.1 Using Serial Ports

1. The RS232 purple/white wires are from the CPU. It's the same for either MDT-801 or LDT-101. This can work even without the use of a external power supply.
2. The RS232 orange/yellow wires and the RS485 blue/brown wires are converted from the USB Hub and will only work if there is an external power supply.

Wires color	Definition	Device tty ports
White	RS232 RXD (CPU)	/dev/ttyS1
Purple	RS232 TXD (CPU)	
Orange	RS232 RXD (USB)	/dev/ttyACM1
Yellow	RS232 TXD (USB)	
Blue	RS485-A	/dev/ttyACM2
Brown	RS485-B	



6.2 Using GPIO (Only supported on CRD-805 cradle)

6.2.1 GPIO Tail Lines Instruction

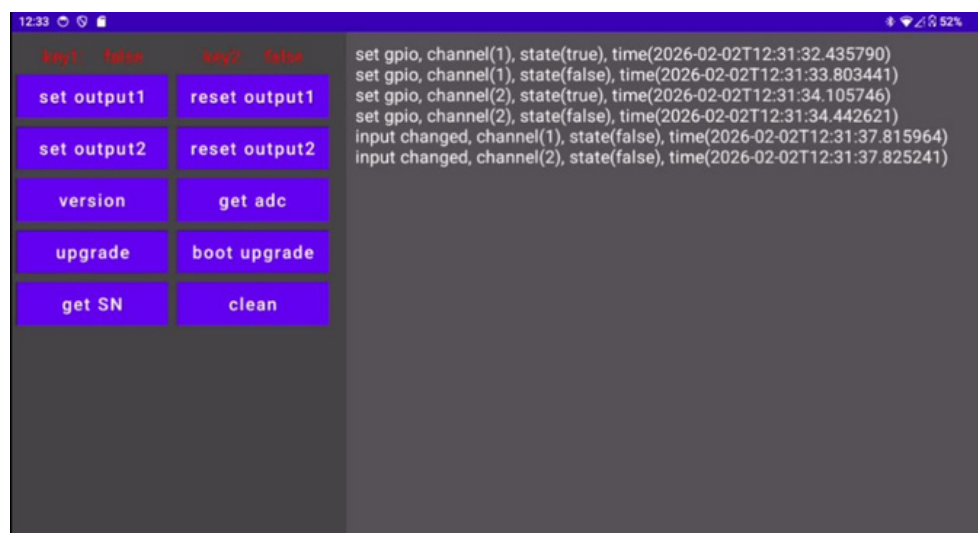
Regarding the definition diagram of GPIO interface, please see the details in Chapter 1 “1.2 Cradle Cable definition”.

6.2.2 GPIO_DEMO Instruction

It includes two input, one output and one ADC.

This software is only used for testing GPIO functions of device, and it isn't suitable for user's standard software.

- If the input1 or input2 is connected to a high power, key1 or key2 will display “true”
- Press set output1 button to open output, and press reset output1 button to close output.
- Press get adc button to read the input voltage.
- Press upgrade button to update the MCU firmware.

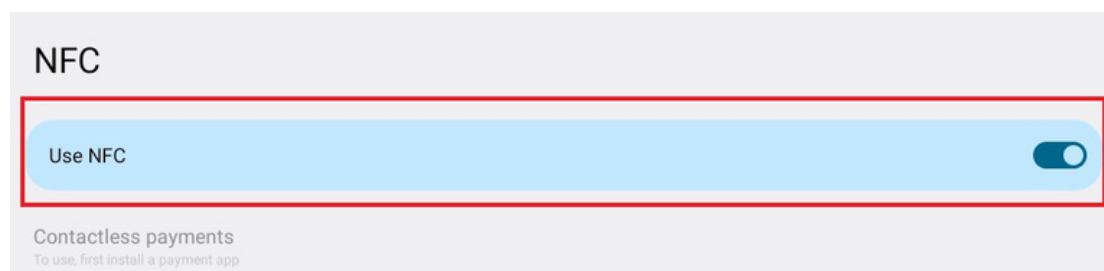


6.3 Using NFC Function

6.3.1 NFC Activation Method

Activate the NFC function in the settings.

Settings > Connection preferences > NFC > Enable Use NFC

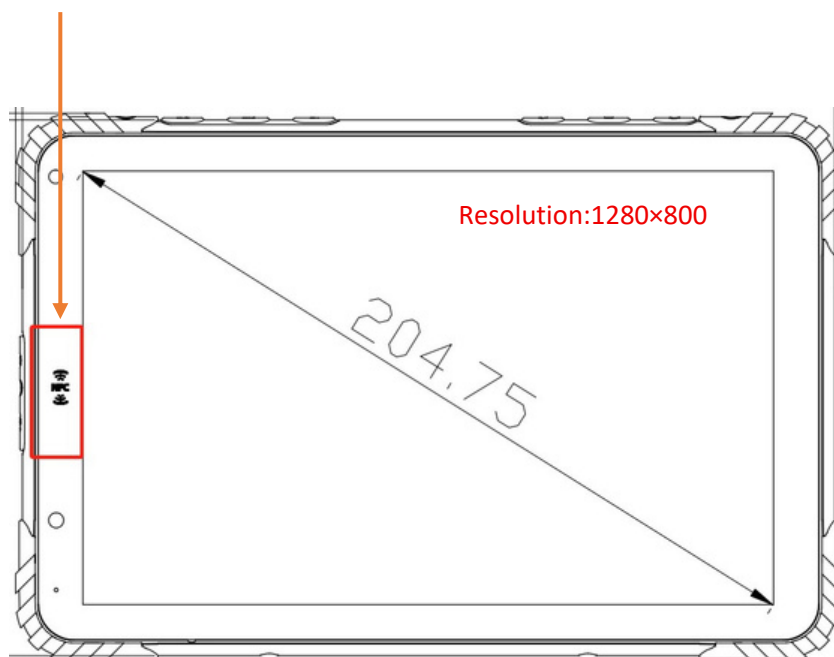


6.3.2 NFC Usage Demo

Front access, easy for driver to login

After activating NFC function, place the NFC card close to the induction area. A prompt tone can be heard if the card is successfully identified. If the card contains some information (such as manufacturer's information), there will be an interface popped up as shown in the below illustration.

MDT-805 NFC



6.4 Using eSIM Function

The MDT-805 has a built-in eSIM, but it cannot be used simultaneously with the 2nd physical SIM card. Only one can be used at a time.

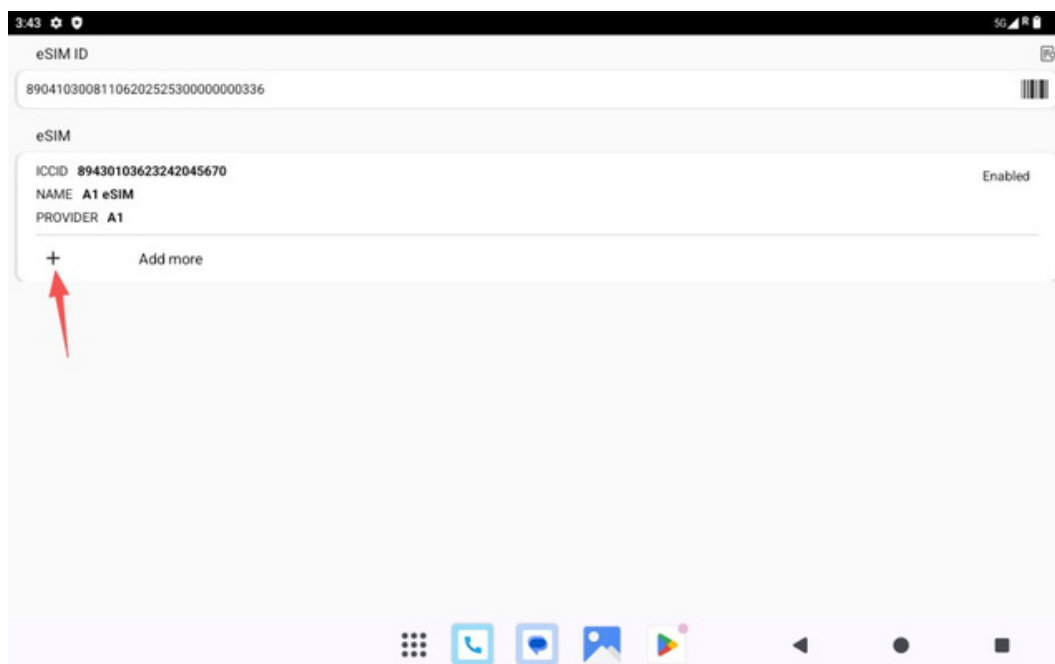
The eSIM will not work after inserting the 2nd physical SIM card. After removing the 2nd physical SIM card, you will need to restart the device to enable the eSIM.

Make sure that the device is connected to the network.

6.4.1 Add eSIM profile (It can write approximately 3-5 eSIM profiles)

Go to the phone App > Dial *##8900##* to access the eSIM App

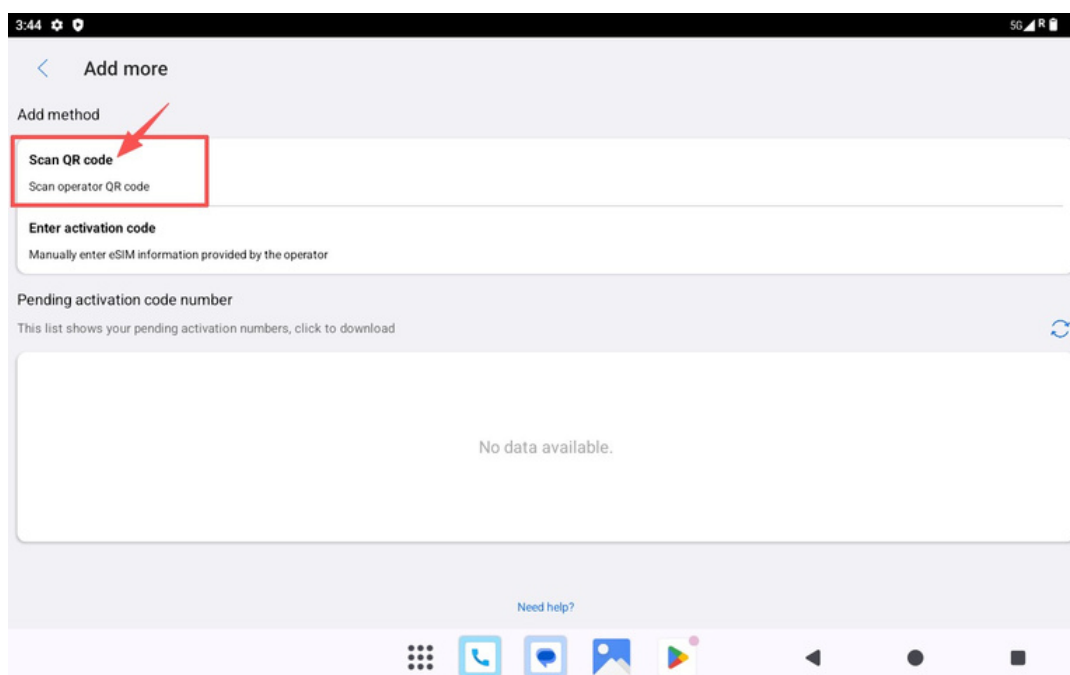
Click "+" to add your eSIM profile.



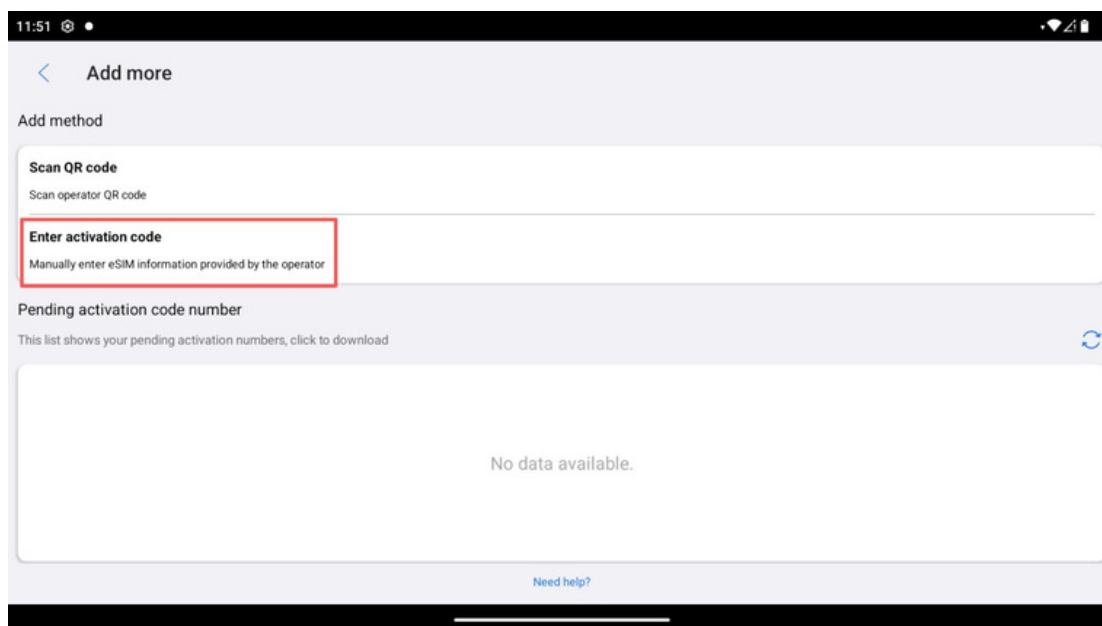
Two ways to add eSIM profile.

You can add an eSIM profile by scanning the operator's QR code or entering an activation code.

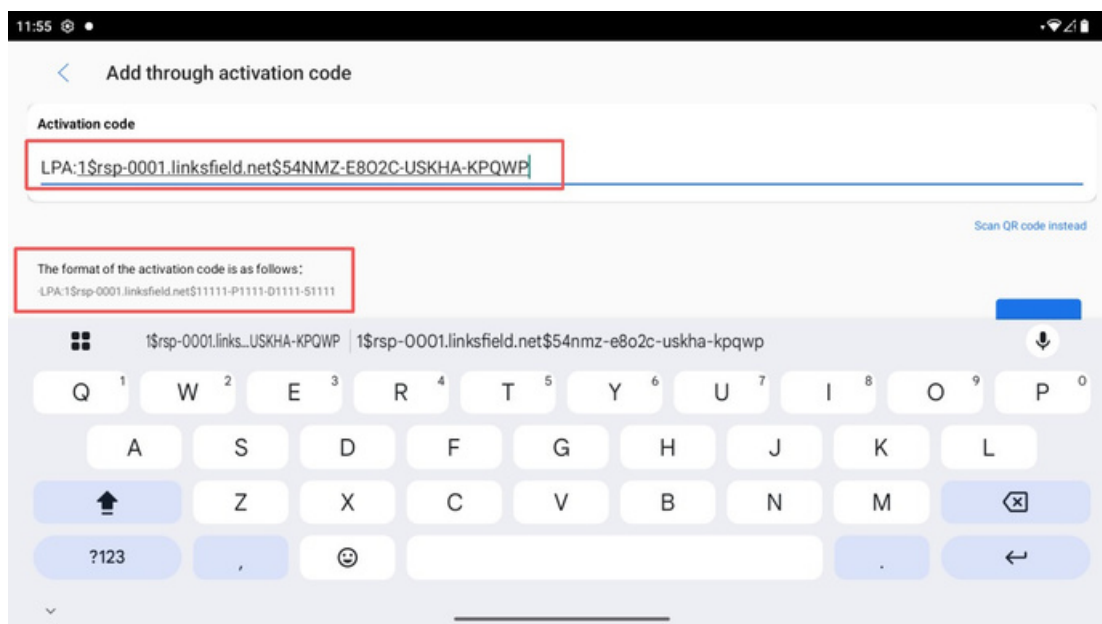
1) Add eSIM profile by scanning the QR code



2) Add an eSIM profile by entering an activation code.

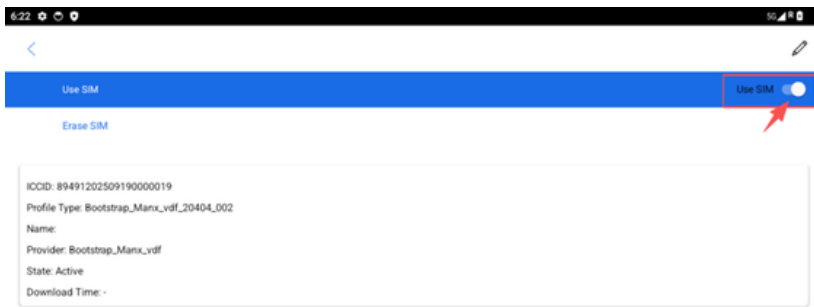


Enter Activation code



6.4.2 Erase eSIM profile

- 1) Dial ***##8900##*** to open the eSIM application
- 2) Disable the "Use SIM card" option
- 3) Erase SIM



Chapter 7: Software Support

Demo application and source code available

We can provide demo applications such as reading the ignition status, AVIN camera, Serial port, GPIO, barcode scanner, NFC, etc. Please contact our Sales for details.

-

Supplementary APIs

<https://www.paceblade.eu/web/content/955887>

Example source code and applications are provided.

Serial port access

Package installation

Power management

Cradle detection

Notification blocker

Additional IOs

Programmatic firmware upgrade and configuration

How to use the hotspot proxy

GPIO of Cradle MDT-801 and MDT-805

How to Prevent Repeated USB Permission Pop-ups - Android Application Configuration Guide

Enable Roaming Proxy

UnmountProxy APK (moun/unmount SD card)

Customization Services

PaceBlade's device management server is developed to allow customers to update different firmware and create a kiosk mode function:

- BOOT ANIMATION
- INSTALL APK
- ADD APN
- DEFAULT SETTING
- CUSTOMIZED BUTTON

For more details, please refer to Remote control server manual and Kiosk mode quick start guide.

Remote control server manual

Kiosk mode quick start guide

Chapter 8: Radio Parameters

Technical Characteristics of EUT	
2G	
Support Networks:	GSM, GPRS, EDGE
Support Bands:	GSM900, DCS1800
Frequency Range:	GSM900: Tx: 880-915MHz, Rx: 925-960MHz
	DCS1800: Tx: 1710-1785MHz, Rx: 1805-1880MHz
RF Output Power:	GSM900: 33.88dBm, GSM1800: 30.40dBm EDGE900: 22.86dBm, EDGE1800: 22.04dBm
Modulation Type:	GMSK, 8PSK
Type of Antenna:	FPC Antenna
Antenna Gain:	GSM900: -1.75dBi, DCS1800:-0.64dBi
GPRS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Bands:	WCDMA Band 1, WCDMA Band 8
Frequency Range:	WCDMA Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz
	WCDMA Band 8: Tx: 880-915MHz, Rx: 925-960MHz
RF Output Power:	WCDMA Band 1: 22.14dBm, WCDMA Band 8: 23.01dBm
Modulation Type:	BPSK, QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	WCDMA Band 1: 1.18dBi, WCDMA Band 8: -1.75dBi
4G	
Support Bands:	FDD-LTE Band1, 3, 7, 8, 20, 28, TDD-LTE Band 38, 40, 41
Frequency Range:	FDD-LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz
	FDD-LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz
	FDD-LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz
	FDD-LTE Band 8: Tx: 880-915MHz, Rx: 925-960MHz
	FDD-LTE Band 20: Tx: 832-862MHz, Rx: 791-821MHz
	FDD-LTE Band 28: Tx: 703-748MHz, Rx: 758-803MHz
	TDD-LTE Band 38: Tx: 2570-2620MHz, Rx: 2570-2620MHz
	TDD-LTE Band 40: Tx: 2300-2400MHz, Rx: 2300-2400MHz
Max.RF Output Power:	TDD-LTE Band 41: Tx: 2496-2690MHz, Rx: 2496-2690MHz
	FDD-LTE Band 1: 22.41dBm, FDD-LTE Band 3: 23.18dBm, FDD-LTE Band 7: 22.64dBm, FDD-LTE Band 8: 23.45dBm, FDD-LTE Band 20: 23.58dBm, FDD-LTE Band 28: 23.22dBm, TDD-LTE Band 38: 23.35dBm, TDD-LTE Band 40: 22.75dBm TDD-LTE Band 41: 23.06dBm
Modulation Type:	QPSK, 16QAM
Antenna Type:	FPC Antenna

Antenna Gain:	FDD-LTE Band 1: 1.18dBi, FDD-LTE Band 3: -0.64dBi, FDD-LTE Band 7: 1.04dBi, FDD-LTE Band 8: -1.75dBi, FDD-LTE Band 20: -1.85dBi, FDD-LTE Band 28: -3.81dBi, TDD-LTE Band 38: 1.3dBi, TDD-LTE Band 40: -1.53dBi, TDD-LTE Band 41: 1.3dBi,
5G NR	
SA Band:	N28, N38, N41, N78
NSA Band:	/
Frequency Range:	N28: Tx: 703-748MHz, Rx: 758-803MHz
	N38: Tx: 2570-2620MHz, Rx: 2570-2620MHz
	N41: Tx: 2496-2690MHz, Rx: 2496-2690MHz
	N78: Tx: 3300-3800MHz, Rx: 3300-3800MHz
Modulation Type:	UL & DL up to 256QAM
Max.RF Output Power:	N28: 25.01dBm N38: 24.07dBm N41: 27.35dBm N78: 27.34dBm
Antenna Type:	FPC Antenna
Antenna Gain:	N28: -3.81dBi N38: 0.39dBi N41: 0.39dBi N78: 2.13dBi
Bluetooth	
Bluetooth Version:	Bluetooth V5.0
Frequency Range:	2402MHz-2480MHz
Max.RF Output Power:	3.76dBm (EIRP)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Data Rate:	1Mbps, 2Mbps, 3Mbps
Quantity of Channels	79/40
Channel Separation:	1MHz/2MHz
Type of Antenna:	PIFA Antenna
Antenna Gain:	-1.07dBi
Wi-Fi (2.4GHz)	
Support Standards:	802.11b, 802.11g, 802.11n-HT20/40
Frequency Range:	2412-2472MHz for 802.11b/g/n(HT20) 2422-2462MHz for 802.11n(HT40)
Max.RF Output Power:	16.70dBm (EIRP)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels	13 for 802.11b/g/n(HT20), 9 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	PIFA Antenna
Antenna Gain:	-1.07dBi
NFC	

Frequency Range:	13.56MHz
Radiated H-Field:	-2.90dBuA/m(@3m)
Modulation:	ASK
Type of Antenna:	FPC Antenna
Antenna Gain:	0dBi
Transmitter Product Class	1
Lora	
Frequency Range:	868.00MHz-868.6MHz 869.4MHz-869.650MHz
RF Output Power:	0.85dBm(ERP)
Type of Modulation:	FSK
Type of Antenna:	FPC Antenna
Antenna Gain:	2dBi
Receiver Categories:	2
GPS	
Frequency Range:	1575.42MHz Receiving 1176.45MHz Receiving

Chapter 9: Safety and Regulatory Compliance

Caution:

Use the Product in the environment with the temperature between -20°C and 60°C; Otherwise, it may damage your product. Products can only be used below 2000m altitude

For the following equipment:

Product Name: MDT-805

Brand Name: PaceBlade

PaceBlade

E-mail: sales@paceblade.eu

PaceBlade hereby declares that this tablet - MDT-805 - is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.



The full text of the EU declaration of conformity is available at the following link: [Admin_DoC_RED.pdf](#)

The product shall only be connected to a USB interface of version USB2.0 and that the connection to a power USB is allowed.

Caution: Risk of hearing impairment. Prolonged exposure to high sound pressure levels from earphones or headphones can cause permanent hearing loss.



CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

Adapter shall be installed near the equipment and shall be easily accessible.

Only can use adapter as below:

Power Adapter Model: GS-W20A0938C

Input: 100-240Va.c. 50/60Hz 0.6A Max

Output: 5Vd.c. 3A or 9Vd.c. 2.22A or 12Vd.c. 1.67A

Shenzhen Good-she technology Co., Ltd

This product is intended for sale and application in a business environment.

RED Article 10 2

-This product can be used across EU member states

RED Article 10 10

-The product is class 1 product, No restrictions

The RF distance between body and product is 0mm

FCC RF Exposure Information and Statement

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: Tablet (FCC ID: 2AHAF-MDT-805) has also been tested against this SAR limit. SAR information can be viewed on-line at <http://www.fcc.gov/oet/ea/fccid/>. Please use the device FCC ID number for search. This device was tested simulation typical 0mm to body.

To maintain compliance with FCC RF exposure requirements, the use of accessories should maintain a separation distance between the user's bodies mentioned above, the use of 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.

This device has been tested and meets the IC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 0mm from the body. Noncompliance with the above restrictions may result in violation of RF exposure guidelines.

Cet appareil a été testé et répond aux directives d'exposition RF IC lorsqu'il est utilisé avec un accessoire désigné pour ce produit ou lorsqu'il est utilisé avec un accessoire qui ne contient pas de métal et qui positionne le téléphone à un minimum de 0 mm du corps. Le non-respect des restrictions ci-dessus peut entraîner une violation

des lignes directrices relatives à l'exposition aux RF.

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: 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.

IC WARNING

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.