

MTK-01 (Vehicle Docking Station)

GETTING STARTED

MTK-01 is a vehicle docking station which enables the MRC84 Tablet PC to be mounted within forklift trucks, trucks, buses, trains, and other vehicles. This quick guide will take you through the procedures for getting the MRC84 with docking station ready for operation.

Check List

MTK-01 package should have all the items listed in the following table.

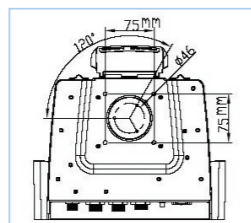
- 1 x MTK-01
- 1 x IP67 Power Cable Connector
- 1 x MTK-01 Quick Guide
- 1 x MTK-01 CD Driver

Installation of Docking Station

MTK-01 meets RAM-MOUNT and VESA standard.

RAM-MOUNTS Support:
RAM-202 bases with C size (1.5" diameter) ball, standing up to 4.5 kgs.

VESA Support:
VESA 75 (75mm x 75mm)

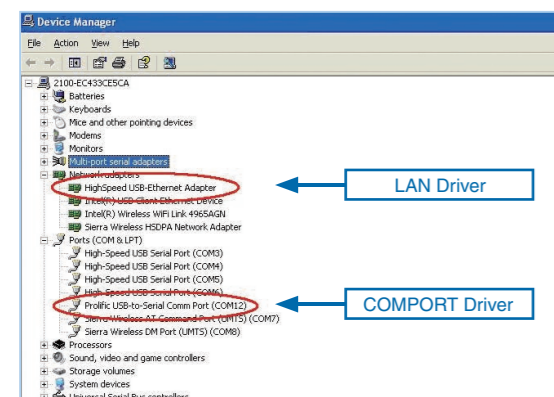


More information, please refer to www.ram-mount.com

Operating MRC with Docking Station

Note:

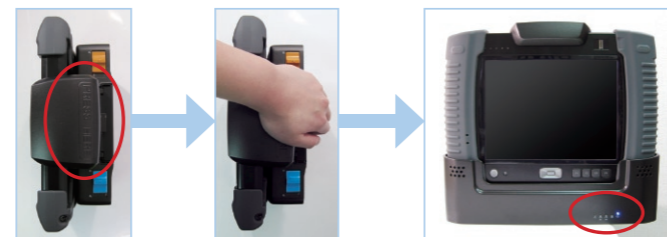
Before you begin, please ensure the MTK-01 driver has been installed onto MRC84. You should see driver installed successfully after locking MRC on the docking station.



1. Place MRC84 into MTK-01 as shown below.

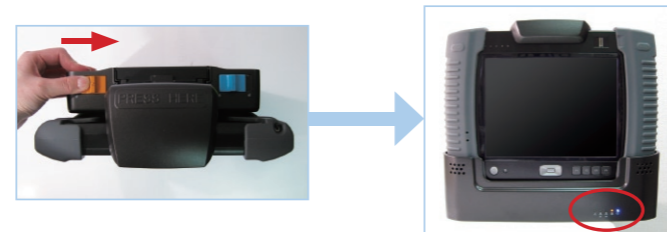


2. Press down firmly on the locking hood. The blue latch will automatically shift to the left indicating that the hood is in place. (🔒) When the hood is in place the power indicator lights will turn blue.



CAUTION: Please pressing the place where marked as "PRESS HERE" on the hook.

3. To lock down the MRC84, slide the orange latch to the right until it clicks in place. (🔒) When locked, the lock indicator lights will turn orange.



4. Now, MRC84's power supply will come from docking station.

Removing MRC from Docking Station

1. To unlock the mechanism simply slide the orange latch to the left indicating unlock status. (🔓) Check that the indicator lights have turned green.



2. Next, slide the blue latch to the right thus releasing the locking hood. (🔓) Check that the lock switch indicator lights have now gone off.



3. To release the MRC from the docking station, pull up the locking hood and remove unit.

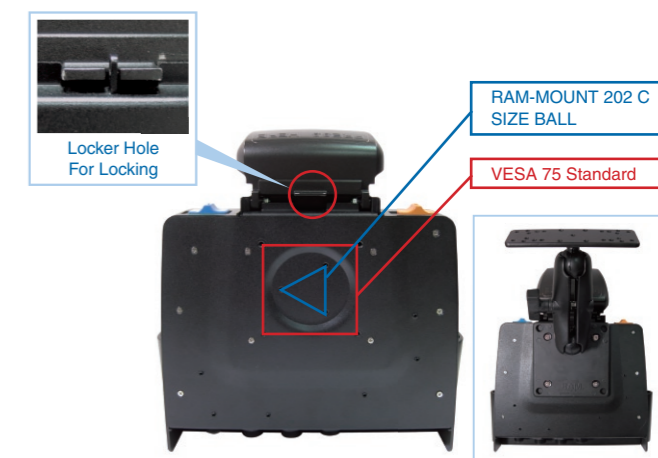
Taking a look at the MTK-01

MTK-01 Front View

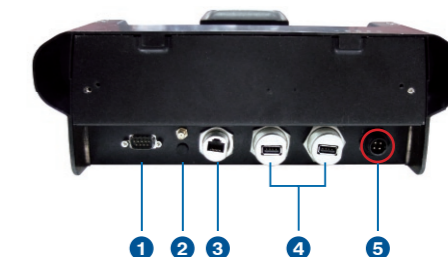


NO.	I/O	Descriptions
1	Locking Hood	Aluminum construction
2	Right Blue Latch	Trigger for power supply to docking station
3	Left Orange Latch	Trigger for power supply to MRC
4	Docking Connector	1 x 32-Pin Po Go connector
5	LED Indicators (from right to left)	<ul style="list-style-type: none"> 🔵 Indicate Power status(Solid Blue) 🟠 Indicate Lock Switch status (Solid Orange) 🟢 Indicate LAN Link (Solid Green when linking LAN) 🟡 Indicate LAN Access (Glittered Yellow when accessing LAN) 🟡 Indicate GPS/wifi status depending on the module slotted in mini card (Yellow)

MTK-01 Rear View



MTK-01 Bottom View



NO.	I/O	Descriptions
1	Lockable COM port	1 x RS-232
2	RF antenna connector	1 x antenna holes reserved for SMA type connector 1 x external GPS connector support Pass-Through
3	IP67 & lockable LAN port	1 x 10/100 base-T port
4	IP67 & lockable USB port	2 x USB2.0
5	IP67 & lockable Power Connector	4-pin Power Connector, support DC-in 9-36V

MTK-DOCK-01 (Vehicle Docking Station) Quick Guide VER. C

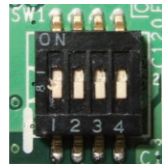
Power ON/OFF Delay Time Setting

Switch location: SW1

Default: Disable

If you would like to enable power "on" delay time function, please switch 1 to "on".

If you would like to enable power "off" delay time function, please switch 2 to "on".



Enable/Disable Power ON/OFF delay time setting

function SW1	Power ON delay Disable	Power ON delay enable	Power OFF delay Disable	Power OFF delay enable
1	OFF	ON		
2			OFF	ON

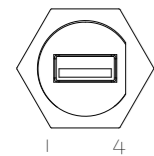
Delay time setting

delay time	Power ON 10sec	Power ON 30sec	Power OFF 10min	Power OFF 30min
3	OFF	ON		
4			OFF	ON

Connector PIN OUT

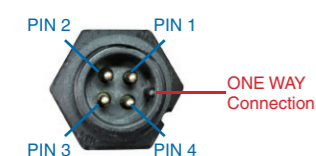
USB Connector

Connector size: Waterproof USB 4Pin
Connector location: USB1 USB2



Pin NO.	Description	Pin NO.	Description
1	VCC	2	DATA-
3	DATA+	4	GND
4Shield	GND		

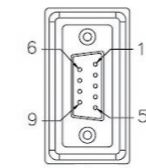
Power Connector



PIN	Definition
1	+9~36V DC-in
3, 4	GND
2	Ignition

RS232 Com Port

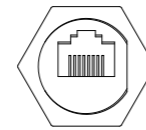
Connector size: Waterproof Com Port



Pin NO.	Description	Pin NO.	Description
1	DCD	2	RXD
3	TXD	4	DTR
5	COM_GND	6	DSR
7	RTS	8	CTS
9	RI		

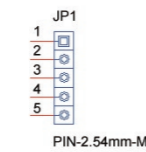
10/100 Ethernet LAN Port

Connector size: Waterproof RJ45 Port



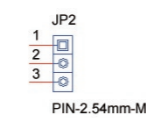
Pin NO.	Description	Pin NO.	Description
1	RX-	2	ECON_GND
3	RX+	4	ECON_GND
5	TX-	6	NC2
7	TX+	8	NC2
9	NC1		

MCU Programmer PIN Header(JP1)



Pin NO.	Description	Pin NO.	Description
1	+3.3Vsb	2	C2D
3	MRST	4	C2CK
5	GND		

Ignition Function (JP2)



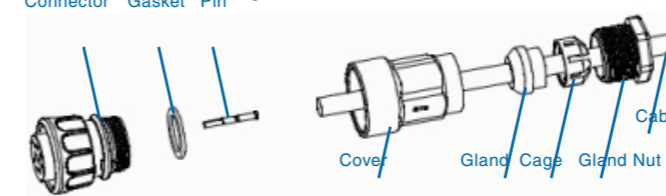
Pin NO.	Status	Function Description
1-2	Short*	IGNITION
2-3	Short	Always ON

Assembling Power Cable to IP67 Connector

Note:

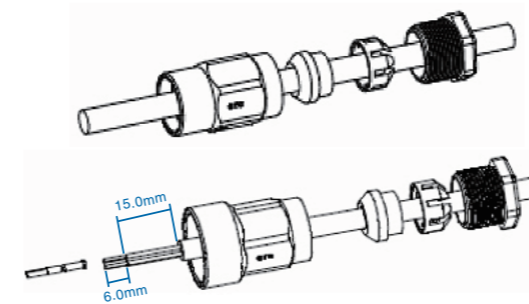
1. Before using the connector, it is important that these instructions are carefully read and understood to ensure the connector system is completely water tight and performs to specification.
2. Gland Nut Torque: 2.5~3.0 kgf-cm Tightening torque.
3. Cable OD is suitable from 5.0 to 7.0 mm.
4. PIN is suitable from 16~20 AWG Cable.

Connector components

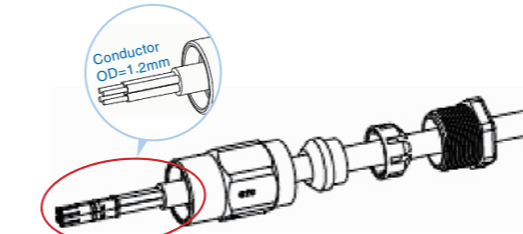


Assembly/wiring instructions

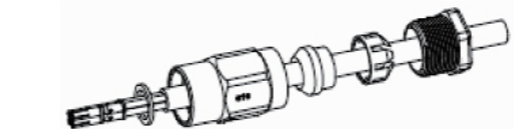
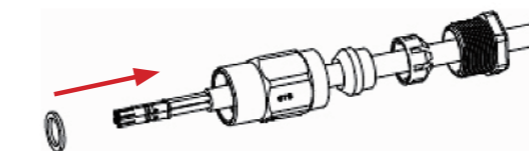
Step1: strip cable sheath and insulation.



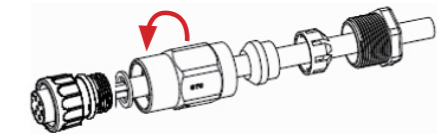
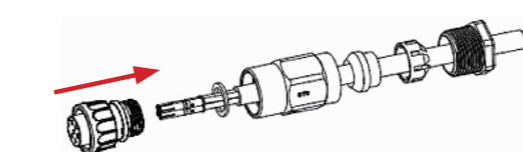
Step2: The use electric welding way, after pin moistens the tin, OD=1.2mm Max (or use crimp tool).



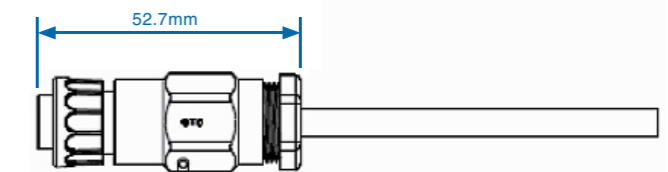
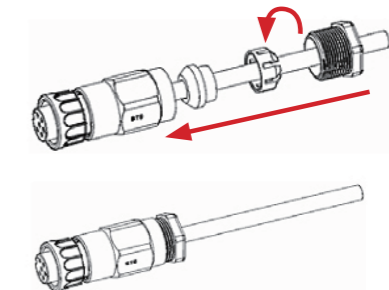
Step3: Move the gasket into the cover as show.



Step4: Move the connect into the cable as show.



Step5: Move the gland, cage and cable into the connect as show.



Ordering Information

MTK-01

Vehicle Docking Station With USB/RS232/LAN/Mini Card/Expansion I/O

Optional Accessory Ordering Information for MTK-01(Vehicle Docking Station)

IP67 USB CABLE (plug side)



IP67 LAN CAP (plug side)

