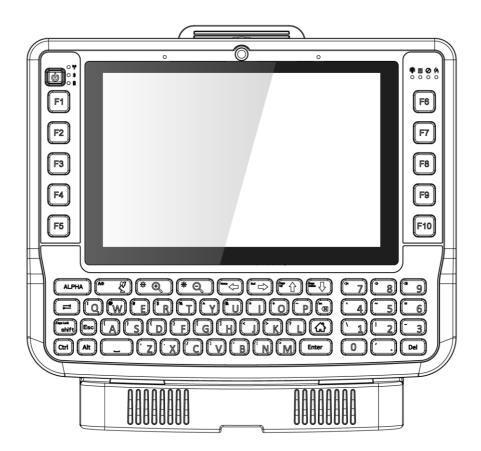


Vehicle Mounted Computer

Intel Elkhart Lake x6413E Processor, 2.0 GHz Intel Elkhart Lake x6425E Processor, 2.0 GHz (Optional)



FM08E

Quick Start Guide

Version 1.0

Document Part No. 915211111182

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NOTE:

Display images shown may vary slightly from actual display. Information in this manual is subject to change without prior notification.



NOTE:

FM08E Computer has to be used together with the docking station. Use the device when located at least 20 cm (7.9 inches) away from the human body.

Disclaimer

Winmate Inc. reserves the right to make any product changes without notice, including circuits and/or software described or contained in this manual in order to improve design and/or performance. Winmate Inc. assumes no responsibility or liability for the use of the described product (s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this guide are for illustration purposes only. Winmate Inc. makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

Warranty

Winmate Inc. warrants that each of its products is free from material and workmanship defect for a period of one year starting from the invoice date. If the customer discovers a defect, Winmate Inc. will, at its option, repair or replace the defective product at no charge to the customer, provided it is returned during the warranty period, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service.

Read Me First

Follow and adhere to all warnings and instructions in this manual. For your safety, please read all safety and operating instructions before using the product. Keep this manual for future reference.



CAUTION/ ATTENTION

Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité. VERIFIER que le cordon électrique est la prise murale pour un delai d'inactivite prolongé. Pour arrêter complètement l'alimentation de l'appareil, débranchez le cordon d'alimentation de la prise AC. N'enlever ni le capot arrière ni les pièces internes de l'appareil. Contactez un personnel qualifié si nécessaire.



WARNING! / AVERTISSEMENT!

Utilisé pour les instructions destinés à alerter l'utilisateur d'un CHOC ÉLECTRIQUE mortel ou de blessure grave en cas d'utilisation incorrecte de l'unité.



WARNING! / AVERTISSEMENT!

Utilisé pour les instructions destinés à alerter l'utilisateur d'un risque mortel ou de blessure grave en cas d'utilisation incorrecte de l'unité.



CAUTION/ ATTENTION

Pour réduire le risque d'incendie ou de choc electrique ne pas exposer l'appareil à la pluie ou à l'humidité FAIRE le cordon électrique est DÉBRANCHÉ DE LA PRISE MURALE DANS UN DELAI DE PROLONGER INACTIVITÉ. De se désengager totalement LE POUVOIR DE L'UNITE, S'IL VOUS PLAÎT DEBRANCHER LE CORDON D'ALIMENTATION DE LA PRISE AC. NE PAS Romove le capot arrière, pas de PIÈCES À L'INTÉRIEUR. Contactez un personnel qualifié S'il faut le réparer.



WARNING! / AVERTISSEMENT!

Sert aux instructions destin es alerter l'utilisateur d'un CHOC ÉLECTRIQUE mortel ou de blessure grave en cas d'utilisation incorrecte de l'unit.



WARNING! / AVERTISSEMENT!

Sert aux instructions destin es alerter l'utilisateur d'un risque mortel ou de blessure grave en cas d'utilisation incorrecte de l'unit.

FCC Regulations

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.

This device 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 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 technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Operation on the 5.15-5.25GHz frequency band is restricted to indoor use only. The FCC requires indoor use for the 5.15-5.25GHz band to reduce the potential for harmful interference to co-channel Mobile Satellite Systems. Therefore, it will only transmit on the 5.25-5.35 GHz, 5.47-5.725 GHz and 5.725 –5.850 GHz band when associated with an access point (AP).

CE Notice (European Union)

This device has been tested and found to conform to the limits set for a Class B product.

- EN 55022 "Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment"
- EN 55024 "Information technology equipment Immunity characteristics Limits and methods of measurement"
- EN 61000-3-2 "Electromagnetic compatibility (EMC) Part 3: Limits Section 2"
- EN 61000-3-3 "Electromagnetic compatibility (EMC) Part 3: Limits Section 3"
- EN 60950 "Safety of Information Technology Equipment".
- EN 55022 Emissions requirements

RF Exposure Information (SAR)

This device is compliance with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for operations with the device contacted directly to the human body to the back side of the EUT. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitted antenna during transmitting.

IC Regulations

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."

This device complies with Industry Canada license-exempt RSS standard(s). 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.

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co- channel mobile satellite systems; the maximum antenna gain permitted (for devices in the bands 5250-5350 MHz and 5470-5725 MHz) to comply with the e.i.r.p. limit; and The maximum antenna gain permitted (for devices in the band 5725-5850 MHz) to comply with the e.i.r.p. limits specified for pointto-point and non-point-to-point operation as appropriate, as stated in section A9.2(3). In addition, Highpower radars are allocated as primary users (meaning they have priority) of the band 5250-5350 MHz and this radar could cause interference and/or damage to LE-LAN devices.

The County Code Selection feature is disabled for products marketed in the US/Canada. For product available in the USA/ Canada markets, only channel 1~11 can be operated. Selection of other channels is not possible.

IC Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528.

About the Adapter

- Use only the supplied AC adapter (Rating: Input DC 10-60V DC). Use of another type of AC adapter will result in malfunction and/or danger.
- Do not use the adapter in a high moisture environment. Never touch the adapter when your hands or feet are wet.
- Allow adequate ventilation around the adapter when using it to operate the device or charge the battery. Do not cover the AC adapter with paper or other objects that will reduce cooling. Do not use the AC adapter while it is inside a carrying case.
- Connect the adapter to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the adapter if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

Li-Ion Battery

Your device has UPS battery. When disposing UPS battery, follow local rules and regulations.



WARNING!

Do not dispose the battery with general waste materials.

The following precautions on battery recycling should be observed:

- The battery should be disposed properly according to local regulations;
- The battery should not be damaged or crushed;
- The battery should not be heated or exposed to direct sunlight.

If you are not aware of local regulations on disposing the battery pack, contact our Service Center or sales representatives for more information.



IMPORTANT:

This hot-swap battery is soft-packed. It may have up to 8% inflation in dimensions under the usage in normal conditions. The mechanical design of the device reserves the space for this normal inflation.



WARNING:

If you observe the internal hot-swap battery has been inflated more than normal condition (or the blotch of panel and touch caused by inflated battery), contact our Service Center or sales representative for replacing the battery immediately.



IMPORTANT:

The battery is consumable part. Therefore, it is recommended to replace the battery pack every two years with a new one recommended by Winmate. Contact our Service Center or sales representatives for more information on replacing the battery pack.

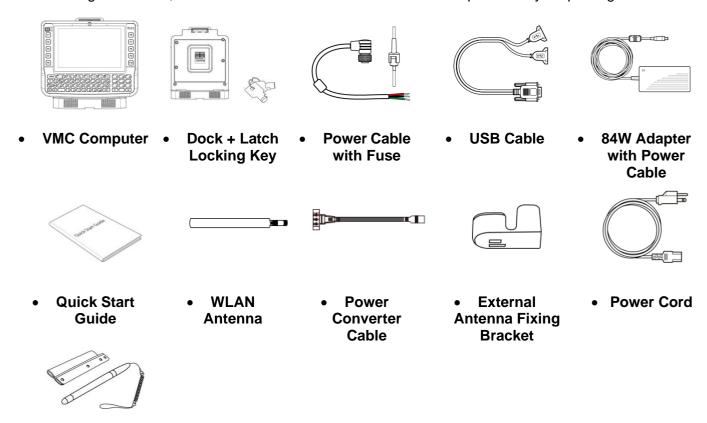
General Guideline

It is recommended to reboot the device when some functions are defect or inactive. If it still can't solve the problems please contact your dealer or agent.

1. Unpacking

1.1 Package Contents

Before using this device, make sure that all the items listed below are present in your package:



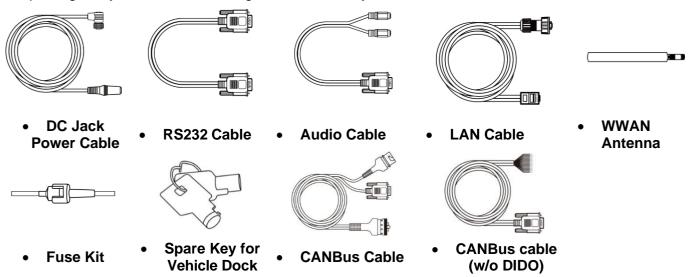
Stylus Kit

Note: Two WLAN antennas are included in the standard package.

Note: Please order one bracket for one antenna. For example, if you plan to use two antennas, please order two brackets.

1.2 Optional Accessories

Your package may include the following items based on your order:

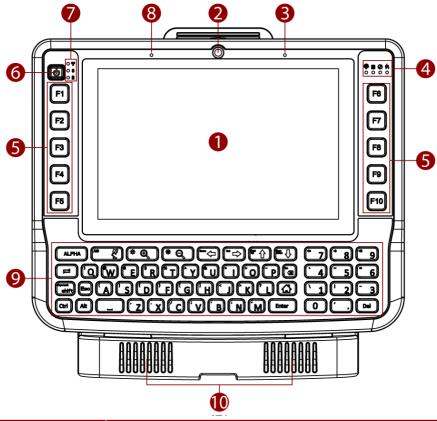


Note: Notice that only one antenna is included in the package. If you plan to use WWAN function please order two WWAN antennas.

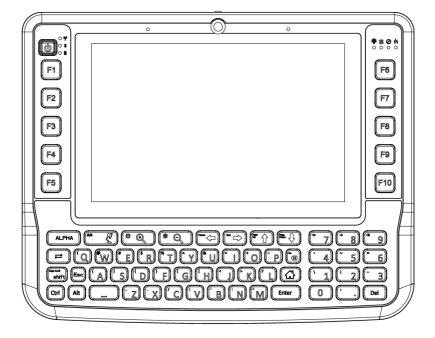
Note: Notice that in order to have sound; you have to plug in the audio cable first than connect to docking.

2. Components

2.1 Front View



No	Item	Description
1	8" Touch Screen	Acts as one of the inputs for the device
2	Camera	2 Megapixel front camera
3	Microphone	For voice communication and voice recording
		Light Sensor
	Light Sensor and LED indicators	HDD Indicators
4	(Right side)	Blanking Indicators
		Heater Indicators
5	Function buttons	Programmable Function keys that can be configured by using the Win-Set® Utility
6	Power Button	Press and hold the button for 3 second to turn on the device
	LED indicators	Wi-Fi Indicators
7	(Left side)	Bluetooth Indicators
		UPS Battery Indicators
8	Digital Microphone	For voice communication and voice recording
9	QWERTY Keypad	The standard typewriter and computer keyboard in countries that use a Latin-based alphabet.
10	Speaker	Emits Sound



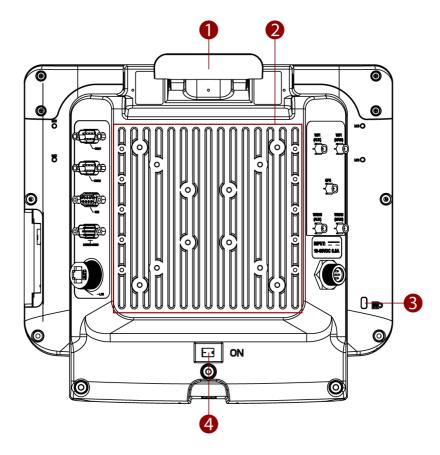
The integrated keypad contains ten programmable keys, F1~ F10 are user programmable keys. Key Mapping is configured via the Win-Set ® utility on the control panel. See Programmable key to remap these keys.

The default values for these keys are:

Press these keys in this order	Default Key Value
ALPHA+F1	Open WinSet
ALPHA+F2	Touch Keypad Lock/Unlock
ALPHA+F3	Function key form F11~F24
ALPHA+F4	RF Hot Tab Function
ALPHA+F5	Camera

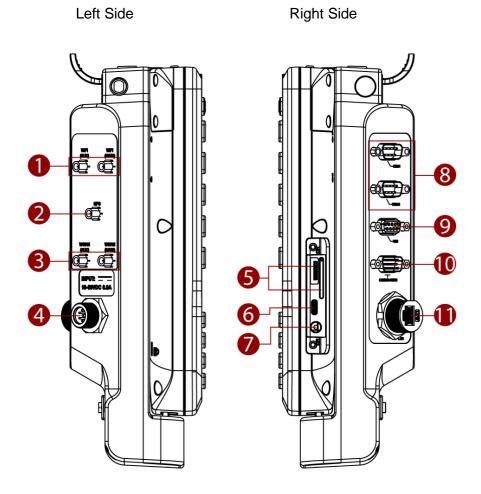
^{*}Sign plus "+" means that you have to press both function keys at the same time.

2.2 Rear View with Vehicle Dock



No	Item	Description
1	Release Latch	Press to release the device and the docking
2	VESA Mount Hole	VESA 75, 100, and RAM Mount
3	Kensington Lock	Connect to a security lock, protecting your device from being stolen
4	Power switch	Set the switch to on (I) to provide the supply power to the device and it will automatically connect to the ignition system of the vehicle

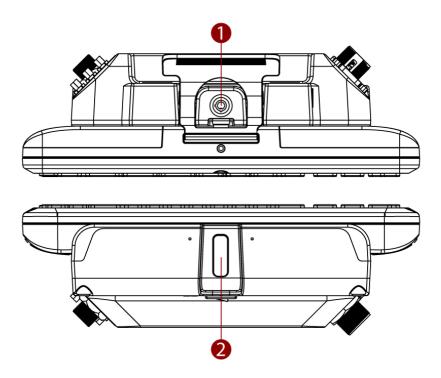
2.3 Side View with Vehicle Dock



No	Item	Description			
1	Wi-Fi Antenna Connector	Connect a Wi-Fi external antenna and allow the device to be remotely mounted on the vehicle			
2	GPS Antenna Connector	Connect a GPS external antenna and allow the device to be remotely mounted on the vehicle.			
3	WWAN Antenna Connector	Connect a WWAN external antenna and allow the device to be remotely mounted on the vehicle			
4	Wide Range Power Input	Connect a 10-60V DC IN wide range power input			
5	SD Card / SIM Card Slot	Service window to insert Micro SIM or MicroSD card.			
6	USB Type-C	USB Type-C A high-speed USB port connects to USB devices			
7	Power Input Connect a 12V DC IN power input				
8	COM1 and COM2	Connect a peripheral device such as a printer or scanner with serial port			
9	USB 2.0 x 2	Connect USB peripheral devices such as USB Flash drive, mouse, keyboard, printer, etc.			
10	CAN Bus / Audio	Connect to a vehicle, allowing access to wide range of vehicle data/ Connects headphone or other audio output devices.			
11	LAN Port	Connect to a local area network (LAN) using an Ethernet cable and provide optional POE with 48V.			

^{*}With service window cover.

2.4 Top and Bottom View

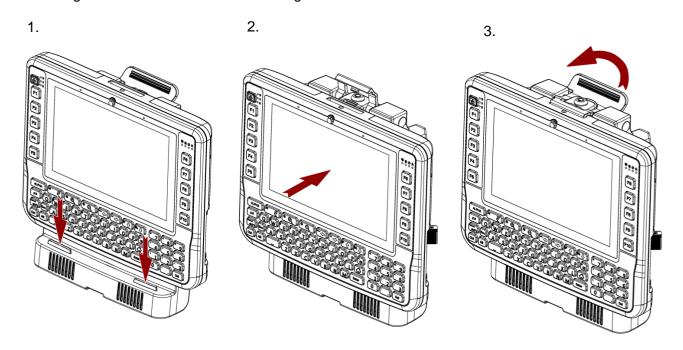


No	Item	Description
1	Lock	Lock the tablet in place
2	Reading Light	Use to provide illumination in darkenvironment

3. Docking and Undocking the Device

Perform the following to dock the device:

- 1. Align the golden connector and guide pin holes on the device with the golden connector and guide pins on the docking station
- 2. Insert the device into the guide pin holes on the docking station
- 3. Slightly push the upper part of the device towards the docking station until you hear the "click" sound, including the device is fixed on the docking station.





Condition	Result
If the battery is full and power is connected to the dock.	The battery indicator is off.
If the battery is low and power is connected to the dock.	The battery indicator is orange.

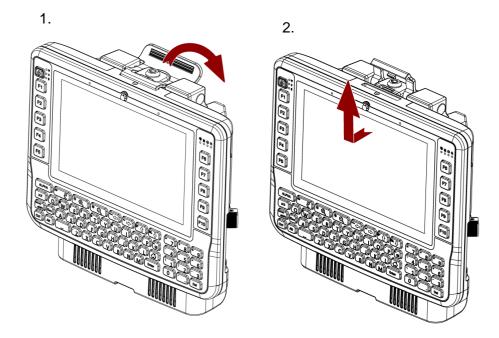


CAUTION/ ATTENTION

Always place the FM08E on the dock from top side. Placing from left or right sides may damage the docking connector.

Perform the following to undock the device:

While holding the device, push the release latch on the docking station and then lift the device to undock it.



4. Power Cable Installation

4.1 Wiring the Power Cable



WARNING!/ AVERTISSEMENT!

This procedure requires a trained service personnel only, improper installation can cause serious damage to the vehicle or the device.

Cette procédure nécessite un personnel de maintenance qualifié uniquement, une mauvaise installation peut causer des dommages importants au véhicule ou le dispositif.

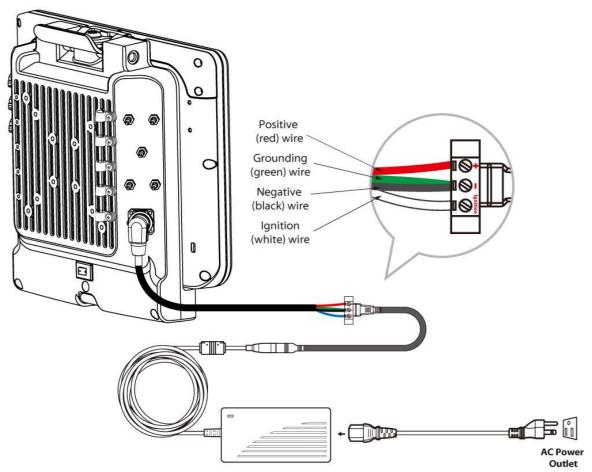
4.2 Connecting the Power Cable for Testing



IMPORTANT:

It is highly recommended to purchase the power cable for testing purpose.

Wiring Instruction



- 1. Place the device on the vehicle dock and make sure the device is Off.
- 2. Connect the CN2 to the FM08E vehicle dock by aligning the connector pins and then push it, twist to fasten the connection.
- 3. Connect the AC plug to the electrical outlet.
- 4. Switch the power switch On, located on the back of the vehicle dock.
- 5. Press the On button, the device is ready for testing.

4.3 Connecting the power cable for installation on the vehicle

WARNING!/ AVERTISSEMENT!

This power cable should only be used on the 24, 36, or 48 Volt forklifts. Note that, this power cable cannot work for 12 Volt forklifts.

Ce câble d'alimentation ne doit être utilisé sur les 24, 36, ou 48 chariots élévateurs Volt. Notez que, ce câble d'alimentation ne peut pas travailler pour 12 chariots élévateurs Volt.



WARNING!/ AVERTISSEMENT!

Select a mounting location and make sure it is not located on the outside the vehicle.

Sélectionnez un emplacement de montage et assurez-vous qu'il ne se trouve pas à l'extérieur du véhicule.

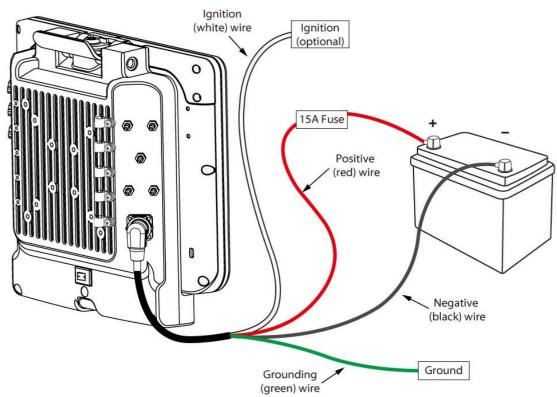


WARNING!/ AVERTISSEMENT!

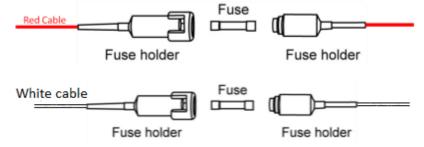
Do not perform the installation on a moving or live electric forklift.

Ne pas effectuer l'installation sur un mobile ou un chariot élévateur électrique sous tension.

Wiring Instruction



- 1. Remove the vehicle battery before connecting the power cable
- 2. Connect the Green Wire (Ground) to the vehicle's chassis (grounding), which can also be negative pole of the battery
- 3. Place the fuse and fuse holder in-line of the Red (VCC +) and White (ignition) wires as shown below.



Fuse Specification:

Two Fuses, 15A, 250Volt, UDA Type Fuses



WARNING! AVERTISSEMENT!

All power wiring must use the supplied power cable.

Tout le câblage électrique doit utiliser le câble d'alimentation fourni.

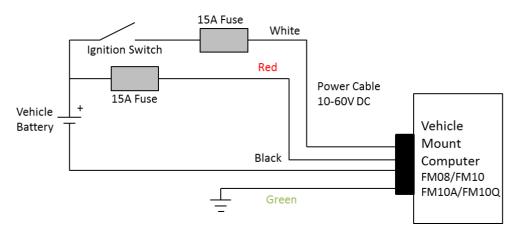
- 4. Slide tubing over wires, remove the wires and insert it to the fuse holder, crimp it.
- 5. Connect the red wire to the vehicle's positive power source. Connect the black wire to the vehicle's negative power source.
- 6. Connect the white wire to the vehicle's ignition switch for the ignition function, if the requirement is connected to vehicle without ignition, please connect ignition pin to battery V+.

Warning! When power is on, ignition pin connects to battery V+ will cause the power consumption even ignition is off

Power cable description:

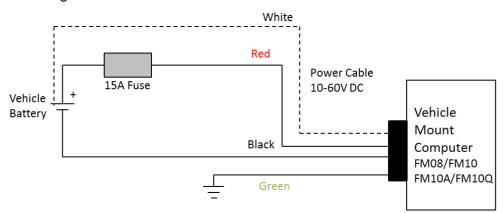
Color	Symbol
Red	VCC+
Black	VCC-
Green	Ground
White	Ignition input (optional)

With Ignition Function



7. The ignition cable (White cable) must be connected to the battery positive if the customer does not want to have ignition function, as following.

Without Ignition Function



8. Secure the power cable to the device using cable clamps and place the device in the dock. See *Power cable routing*.



WARNING!/ AVERTISSEMENT!

Use the proper cable clamps and do not over tighten it to prevent it from break.

Utilisez les pinces appropriées du câble et ne serrez pas pour l'empêcher de pause.

- 9. Press the power switch on the back of the dock See *Power switch*.
- 10. Press the power button on the front of the device See *Power Button*.

5. Power Management Mode

The FM08E has four power modes:

- Full ON
- Standby / Sleep
- Hibernate
- OFF

Action	Button		Power Button Backlight	Indicator
Turn On	(b)	Press the On button for "2 seconds" until the battery indicator On (solid green) and then release the button	Off	(ini) • * * • * • * • • * • • • • • • • • •
Standby or Sleep Mode *	Ф	Press the On button for "2 seconds" until the screen On and then release the button. The battery indicator will Off after the screen is Off, the system is already in the standby / sleep mode	On	(ont) • * * • • • • • • • • • • • • • • • •
Wake up	(b)	Press the On button for "2 second" until the screen On and then release the button. The battery indicator will On (solid green)	Off	(100) • ** * • ** [3]
Turn Off	(b)	Press the On button for "4 second" until the system is turns Off and then releases the button.	Off	(001) • ** * • []

6. Defroster

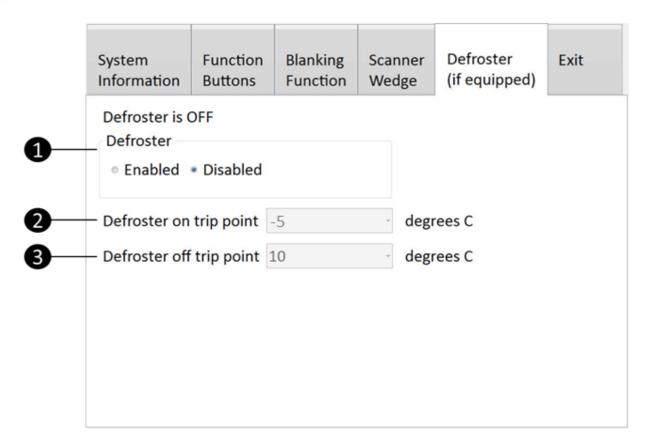
In cold storage, outdoor or in intermodal facilities condensation may appear on the screen. A defroster clears condensation and thaw frost from the screen. Notice that Defroster is an optional feature for the FM08E and may not be present in your device.

To show the defroster status open Win-Set and go to the Defroster sub-menu to see the information about the defroster.



IMPORTANT:

The defroster is always disabled when the device is operating from UPS battery power.



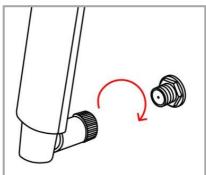
Item	Setting	Setting Options	Default Setting	Description
1 Defroster	Defrecter	Enabled	Disabled	Enables the defroster.
	Disabled	Disabled	Disables the defroster.	
2	Defroster on trip point	-30 ~ 0°C	Default: -5°C	When enabled, defroster automatically starts working when the outside temperature drops down to defroster on trip point (°C)
3	Defroster off trip point	+5°C, +10°C	Default: +10°C	When enabled, defroster automatically stop working when the outside temp. reaches defroster off trip point (°C)

button to close the Win-Set menu and go back to the desktop.

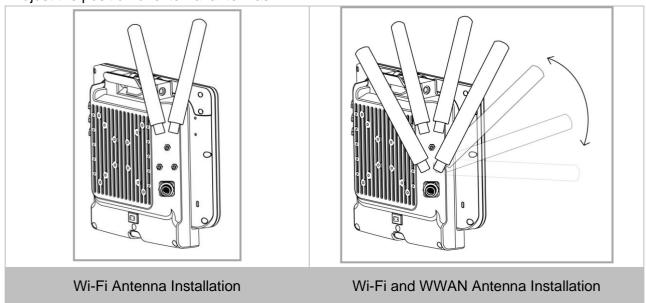
7. External / Vehicle Remote Antenna

The FM08E vehicle dock is equipped with SMA Connector for additional external antenna (Wi-Fi or optional WWAN), to install the antenna please perform the following:

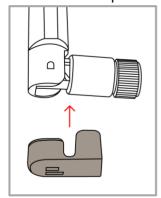
- 1. Remove the rubber cap on the SMA connector before installing the antenna.
- 2. Align the antenna with the SMA connector and fasten it as following picture.

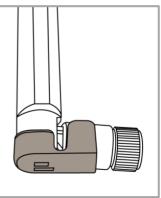


3. Adjust the position of external antennas.



4. Attach plastic fixing bracket to fix the position of each antenna.





8. RAM Mount Installation

Winmate recommends using RAM Mounting Parts as part of our device mounting solution. The rear cover of this device is designed to be mounted to RAM Mount solutions, which provides different mounting options to fit any industrial use or vehicle. Please notice that mounting kits are not included in the standard package.

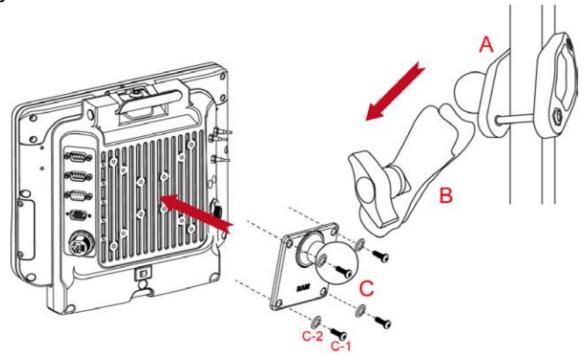
RAM Base Dimensions: 38.1 x 30 mm Screw: 4 x M5-0.8x10 mm Phillips screws



Important:

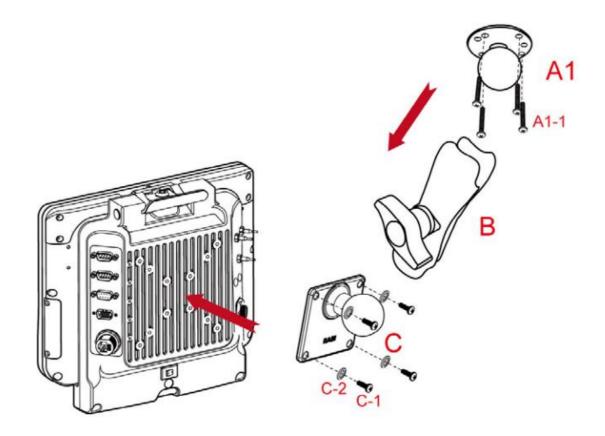
The information below is just a guideline on how you should mount the Winmate device using RAM Mount. To purchase the RAM parts, please follow the RAM Mounts Part and purchase from your preferred retailer.

Mounting 1 – No Drill Solution



No	Component RAM Mount Part Number		Description	QTY
Α	RAM Clamp Mounts - on the forklift	RAM-D-247U-4	Clamp base with 2.25" Ball	1
В	RAM Arm	RAM-D-201U	Arm for 2.25" Ball(L:8.375")	1
С	RAM Ball on the device side	RAM-D-2461U	75x75mm VESA with 2.25" Ball	1
C-1	Screw	-	SUS304 M5 x 12mm Screw	5
C-2	Washer	-	M5 Washer	5

Mounting 2 – Drill Solution



No	Component	RAM Mount Part Number	Description	QTY
A1	RAM round base mounts - on the forklift	RAM-D-202U	3.68" Round Base with 2.25" Ball	1
A1-1	Screw	-	SUS304 M8 x 40mm Screw	5
В	RAM Arm	RAM-D-201U	Arm for 2.25" Ball (Length:8.375")	1
С	RAM Ball on the device side	RAM-D-2461U	75x75mm VESA with 2.25" Ball	1
C-1	Screw	-	SUS304 M5 x 12mm Screw	5
C-2	Washer	-	M5 Washer	5

RAM Mount Assembly

Step 1 Install RAM Clamp to vehicle or forklift

- 1. Determine the position for mounting the RAM clamp mount according to RAM Mounts installation guide and specification.
- 2. Place the upper clamp with ball on the beam, insert the bolt.
- 3. Place the lower clamp below the beam. Align the bolts with the holes in the lower clamp.
- 4. Place the nuts and then tighten it.

Step 2 Install RAM Ball base to vehicle dashboard / other surface.

- 1. Please make sure that the surface is flat and rigid.
- 2. Attach the RAM ball base to the vehicle and fix it using bolt or fasteners.

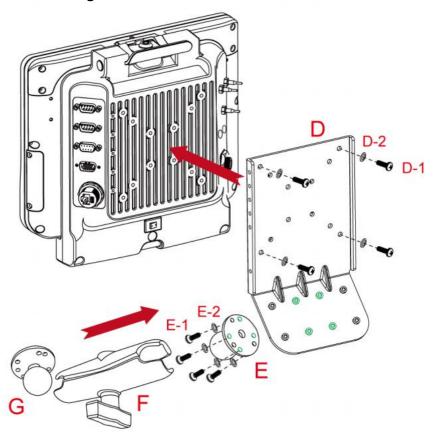
Step 3 Attach RAM Mount Ball to the device docking.

- 1. Turn the device off before installing the RAM mount ball.
- 2. Locate the VESA mount holes on the back of the device and align it with the holes from RAM Ball base. Fix with four M5 screws.

Step 4 Attach the device to RAM arm.

- 1. Insert the RAM arm over the ball on the vehicle RAM mount (shown here).
- 2. Insert the ball on the dock into the RAM arm and tighten the knob.

Mounting 3 - Keyboard Mounting Installation

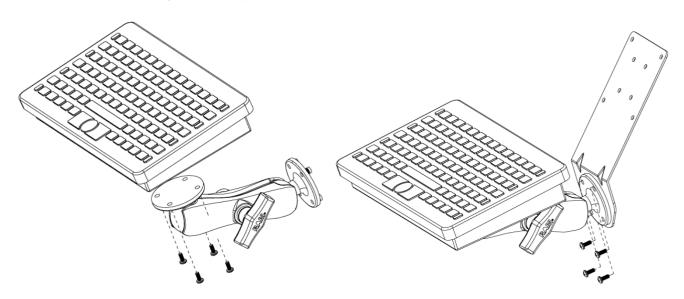


No	Component	RAM Mount Part Number	Description	QTY
D	Winmate Keyboard Adapter Plate (designed by Winmate , PN:821009131600)	-	4 VESA Holes on the plate to device and 4 AMPS holes to RAM Ball	1
D-1	Screw	-	SUS304 M5 x 20mm Screw	5
D-2	Washer	-	M5 WASHER	5
E	RAM Ball on the sloped part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1
E-1	Screw	-	SUS304 M4 x 14mm Screw	5
E-2	Washer	-	M4 WASHER	5
F	RAM Arm	RAM-201U	Arm for 1.5" Ball (Length:5.6")	1
G	RAM Ball on the sloped part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1

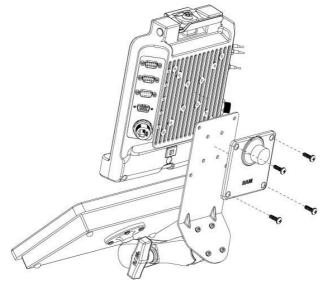
Keyboard Assembly

This part shows the steps to install the keyboard.

- 1. Fasten all four screws on the RAM mount ball on the back of the keyboard.
- 2. Fasten the keyboard adapter on the other end of the RAM mount ball.



3. Fasten the RAM mount ball screws on the back of the device, so all mounting parts are fastening together.



NOTE

NOTE



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