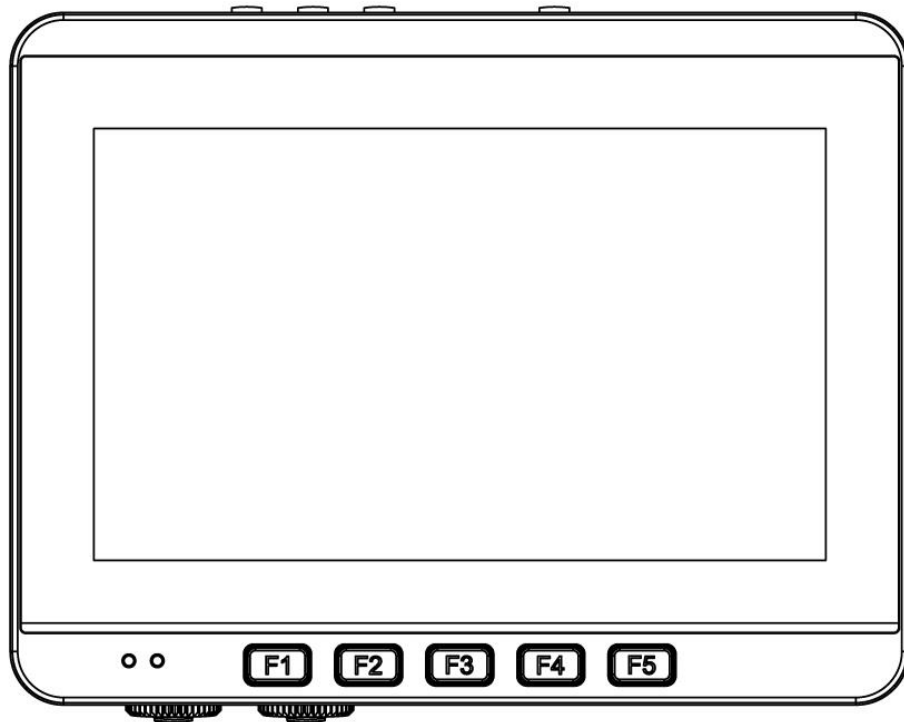


Vehicle Mount Computer

Intel® Celeron® Elkhart Lake N6211 Processor (1.5M Cache, up to 3.00 GHz)



FM07E

User Guide

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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 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.

Advisory Conventions

Four types of advisories are used throughout the user manual to provide helpful information or to alert you to the potential for hardware damage or personal injury. These are Notes, Important, Cautions, and Warnings. The following is an example of each type of advisory.

**Note:**

A note is used to emphasize helpful information

**Important:**

An important note indicates information that is important for you to know.

**Caution / Attention**

A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.

Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème potentiel.

**Warning! / Avertissement!**

An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem.

Un Avertissement de Choc Électrique indique le potentiel de chocs sur des emplacements électriques et comment éviter ces problèmes.

FCC Statement

This device complies with part 15 FCC rules.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Notice (European Union)

Electromagnetic Compatibility Directive (2014/30/EU)

EN55024: 2010/ A1: 2015

IEC61000-4-2: 2009

IEC61000-4-3: 2006+A1: 2007+A2: 2010

IEC61000-4-4: 2012

IEC61000-4-5: 2014

IEC61000-4-6: 2014

IEC61000-4-8: 2010

IEC61000-4-11: 2004

EN55032: 2012/AC:2013

EN61000-3-2:2014

EN61000-3-3:2013

Low Voltage Directive (2014/35/EU)

EN 60950-1:2006/A11:2009/A1:2010/A12:2011/ A2:2013

This equipment is in conformity with the requirement of the following EU legislations and harmonized standards. Product also complies with the Council directions.

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.



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 délai d'inactivité 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.



SA1965

Electrique 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.



SA1966

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.



Attention: Pour réduire le risque d'incendie ou de choc électrique 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.



SA1965

Electrique 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.



SA1966

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 .

Informations de sécurité (FR)

Suivez et respectez tous les avertissements et instructions figurant sur l'écran. Pour votre sécurité, s'il vous plaît lire toutes les consignes de sécurité et de fonctionnement avant d'utiliser le device. Gardez ce manuel pour référence future.

1. Lire avec attention toutes les recommandations et précautions d'emploi avant d'utiliser ce produit.
2. Veuillez conserver ces recommandations et précautions pour référence future.
3. Lire et comprendre tous les avertissements énumérés dans les précautions d'emploi.
4. Suivre toutes les précautions d'emploi pour utiliser ce produit.
5. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
6. Ne pas placer le produit près de toute source de chaleur telle que radiateurs, arrivées d'air chaud, fourneaux ou autres appareils générant de la chaleur (incluant les amplificateurs producteurs de chaleur) .
7. Ne pas négliger la sécurité que procure un branchement polarisé ou avec raccordement à la terre, Un branchement polarisé comprend deux fiches dont l'une est plus large que l'autre. Un branchement à la terre comprend deux fiches plus une troisième reliée à la terre. Si la fiche secteur fournie ne s'insère pas dans votre prise de courant, consulter un électricien afin de remplacer votre prise obsolète.
8. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche de terre du cordon d'alimentation.
9. Utiliser uniquement les accessoires spécifiés par le constructeur.
10. Utilisez seulement des accessoires spécifiés par le fabricant ou vendus avec le produit.
11. Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
12. Faire exécuter le service par du personnel qualifié. Une intervention technique est requise lorsque l'appareil a été endommagé ou n'opère pas normalement.



Safety Information (EN)

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

1. Carefully read all recommendations and precautions for use before using this product.
2. Retain all recommendations and precautions for future reference as necessary.
3. Read and be sure to understand all warnings listed in the precautions.
4. Follow all operating precautions when using this product.
5. Use only a dry cloth to clean this product.
6. Do not place the product near any heat sources such as radiators, warm air intakes, stoves or other heat-generating devices (including amplifiers or other heat producing equipment).
7. Do not disregard the safety that a polarized or grounded connection can provide. A polarized connection consists of two plugs, one of which is larger than the other. A grounded connection has two blades and a third one that is grounded. If the main plug provided cannot be inserted into your outlet, consult an electrician to replace your obsolete outlet.
8. Protect the power cord from being crushed or pinched, particularly in the area of the plugs, any receptacles used, and the point of exit from the apparatus. Do not break off the ground pin of the power cord.
9. Use only accessories specified by the manufacturer.
10. Use only with accessories specified by the manufacturer or sold with the product.
11. Unplug this apparatus during lightning storms or when it is not being used for long periods.
12. Refer all servicing to qualified service personnel. A technical intervention is required when the apparatus has been damaged in any way or does not operate normally



General Guideline

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

About This Guide

This User Guide provides instruction for the system administrator to follow when configuring and using the FM07E Vehicle Mount Computer.



Note:

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

Chapter 1: Introduction

This chapter contains details of FM07E Vehicle Mount Computer, lists supplied accessories, and shows components.

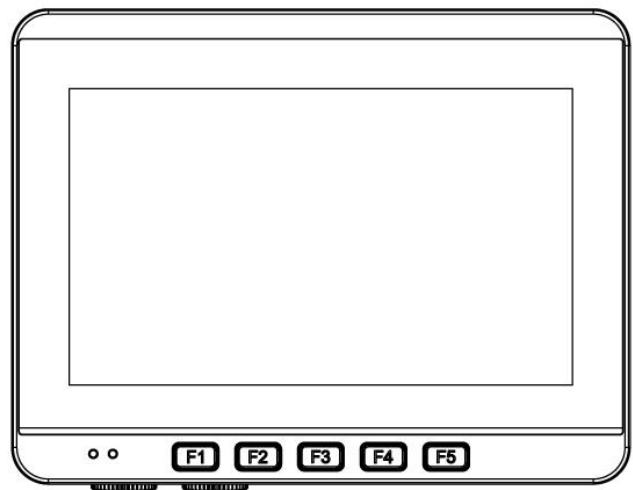
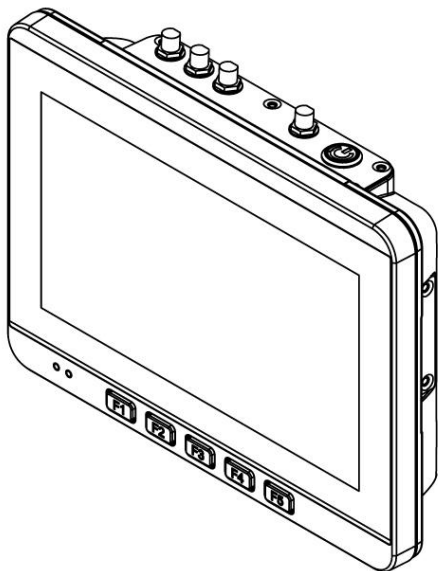
1.1 Introduction

In the warehouse environment, the ability to mount mobile devices and computers to forklifts, trucks, taggers, and inventory pickers, is essential. From inventory management to order fulfillment, asset tracking, and shipping and receiving, the warehouse floor is complex ecosystem that requires high-efficiency technology to keep it running smoothly.

The FM07E Vehicle Computer runs on an Intel® Celeron® Elkhart Lake N6211 processor with projected capacitive touch screen with 1024 x 600 pixel resolution. The FM07E delivers flexibility and mobility in a vehicle mounted computer form factor. FM07E is designed to be mounted on the vehicle and supports 9~36V DC wide power input with ignition.

The programmable function keys on the front panel designed for easy access for some of the most important functions or application. For wireless connectivity the tablet comes equipped with SIM card slot, WLAN, WWAN and GPS antennas.

This vehicle-mount computer is built to endure the rigors of the warehouse, and designed to fit seamlessly into forklifts and other warehouse vehicles.

**Note:**

Contact our technical support for information on the latest firmware upgrade for your device.

1.2 Package Contents

Standard

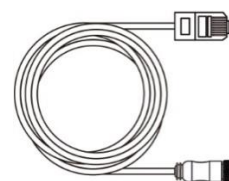
Before using this device, make sure that all the items listed below are present in your package:



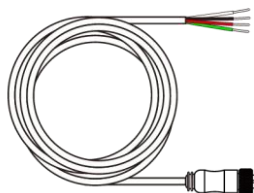
FM07E Computer



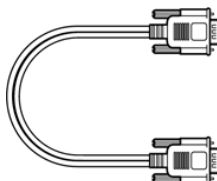
Quick Start Guide



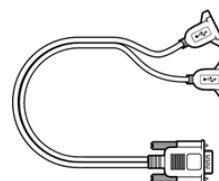
M12 LAN Cable



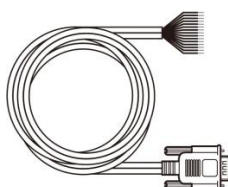
M12 Power Cable



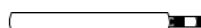
RS-232 Cable



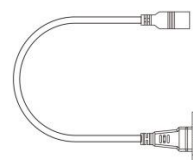
USB Cable



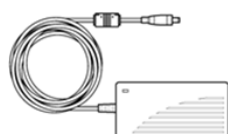
CANBus Cable



WLAN Antenna



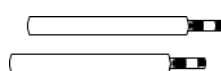
Power Converter Cable



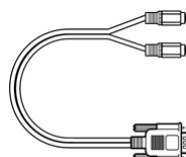
Power Adapter

Optional

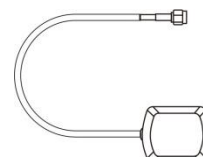
The following accessories may be included in your package based on your order:



WWAN Antenna x 2



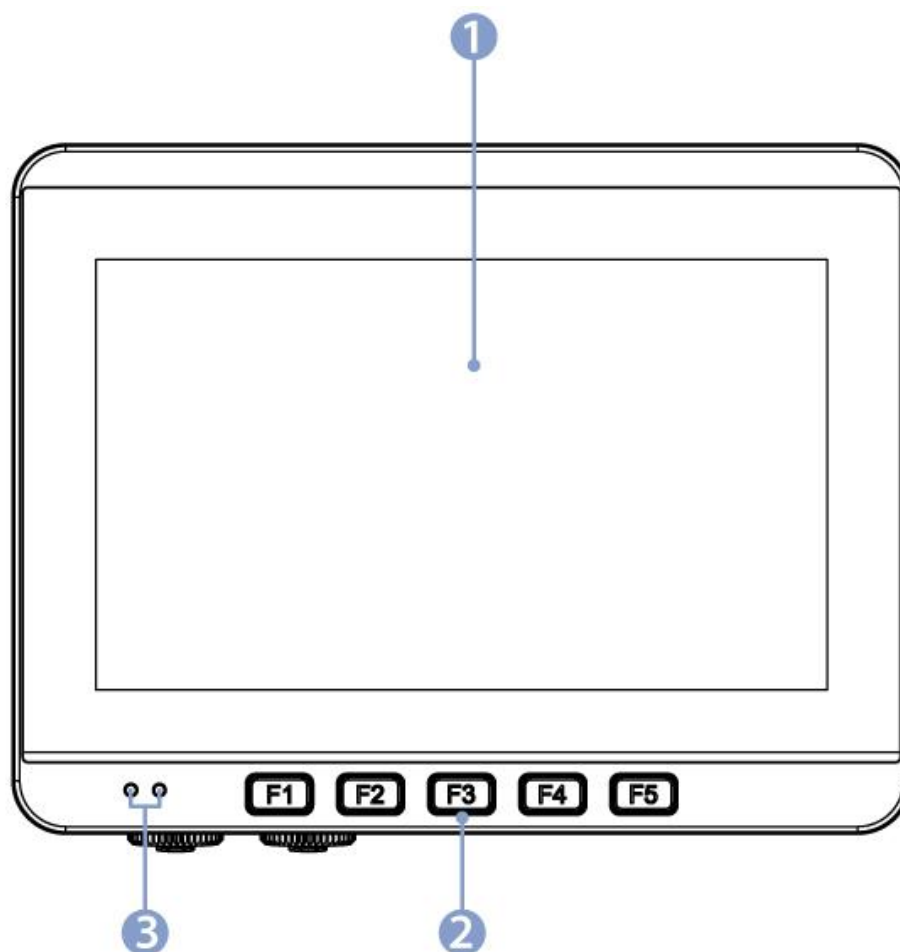
Audio Cable



GPS Antenna

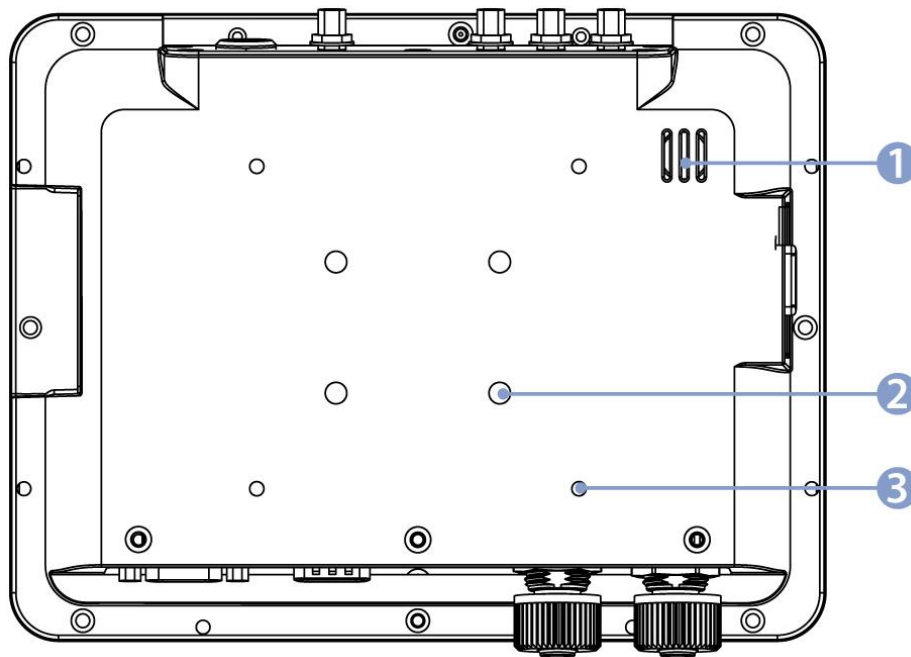
1.3 Components

1.3.1 Front View



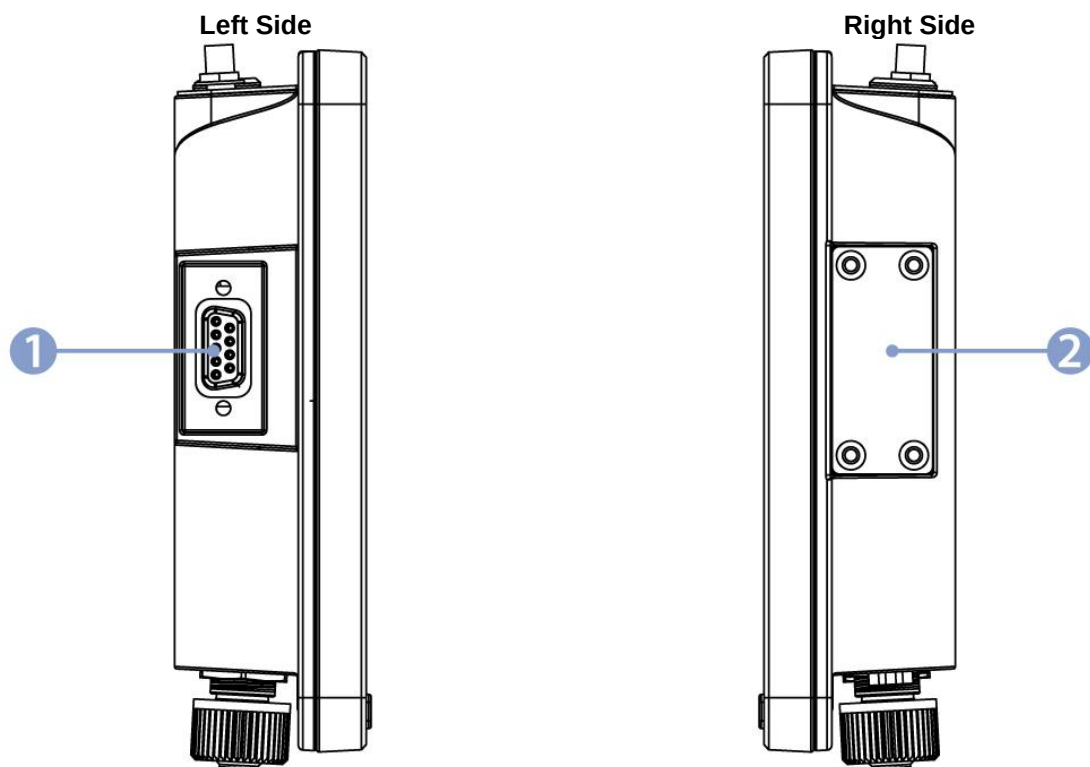
No	Item	Description
1	7-inch Touch Screen	Acts as one of the inputs for the device
2	Function Keys	5 programmable function keys that can be configured by Win-Set [®] Utility
3	LED Indicators	Power LED indicator <i>On: Power is on</i> <i>Off: Power is off</i>
		Storage LED indicator <i>Blinking: Data is being read or written</i> <i>Off: System is idle</i>

1.3.2 Rear View



No	Item	Description
1	Speaker	Emits sound
2	RAM Mount	RAM base dimensions: 38.1 x 30 mm
3	VESA Mount	VESA dimensions : 75 x 75 mm

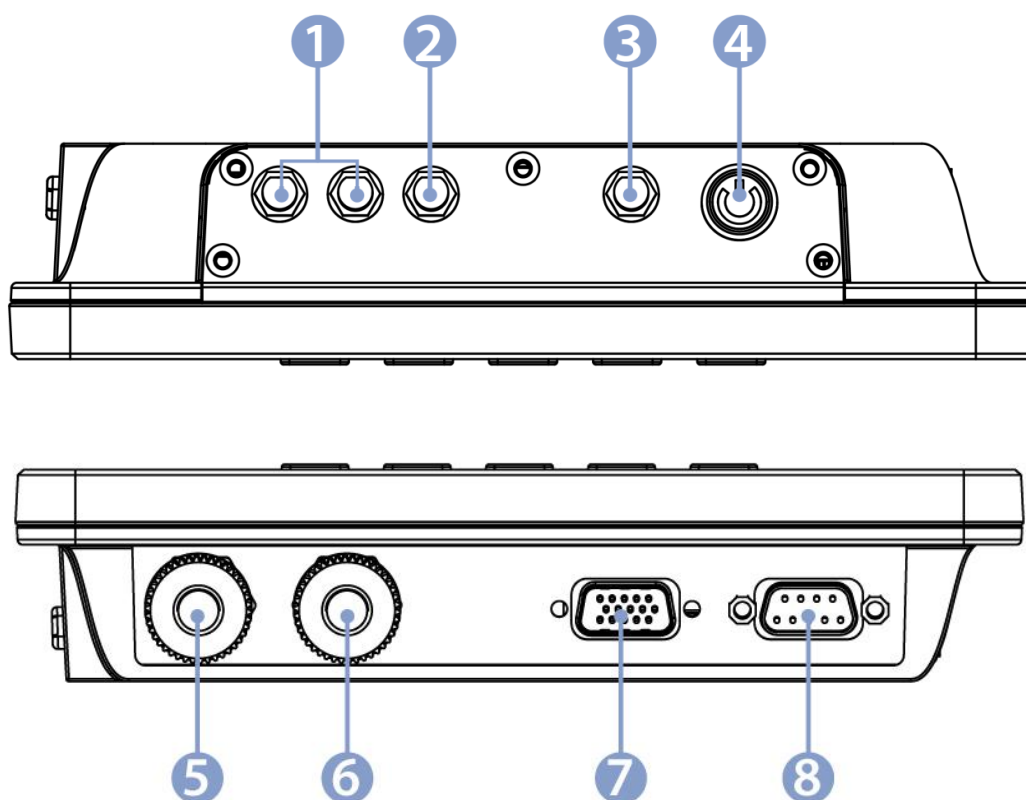
1.3.3 Side View



No	Item	Description
1	USB Connector	USB Connector (DB9) that supports a connection of two USB devices.
2	SIM Card Slot	SIM Card Slot is located under protection cover secured with 4 screws
	Reset Button	Press Reset button to clear the memory and reboot the device forcibly.
	Micro USB	A USB port connects to USB devices.

1.3.4 Top and Bottom View

Top Side



No	Item	Description
1	WWAN Antenna	For WWAN antenna (Optional).
2	GPS Antenna	For GPS antenna (Optional).
3	WLAN Antenna	For WLAN antenna.
4	Power Button	Press power button to start the system.
5	Power Input	9-36V DC with Ignition.
6	LAN	Gigabit Ethernet LAN 10/100/100 Mbps connector (M12 type).
7	DIDO, CANBus	DIDO & CANBus (DB15) connector.
8	RS-232	RS-232 (DB9) connector.

Chapter 2: Hardware

This chapter describes system hardware of FM07E Vehicle Mount Computer.

2.1 System Hardware

2.1.1 Central Processing Unit

The FM07E is running on Intel® Celeron® Elkhart Lake N6211 Processor (1.5M Cache, up to 3.00 GHz) and the operating system of this device is Windows 10 IoT Enterprise.

2.1.2 Input and Output Connectors

The FM07E device supports the following I/O connectors:

- Gigabit Ethernet LAN (M12 type)
- 1 x Power input 9-36V DC with ignition (M12 type)
- RS-232
- 2 x CANBus, 5 x DI, 3 x DO
- 2 x USB
- 1 x SIM Card Slot
- 1 x Micro USB

2.1.3 System Memory

The main system memory is 4 GB SODIMM DDR3L-1600 (up to 16GB).

2.1.4 Audio Interface

Your device is equipped with one speaker which is located on the back cover.

2.1.5 WLAN

Your device has an WLAN network card that can be used with internal or external antennas.

2.1.6 WWAN

Using a SIM card for network connection, your device supports Wireless Wide Area Networking (WWAN).

2.2 Power Cable Installation

2.2.1 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.

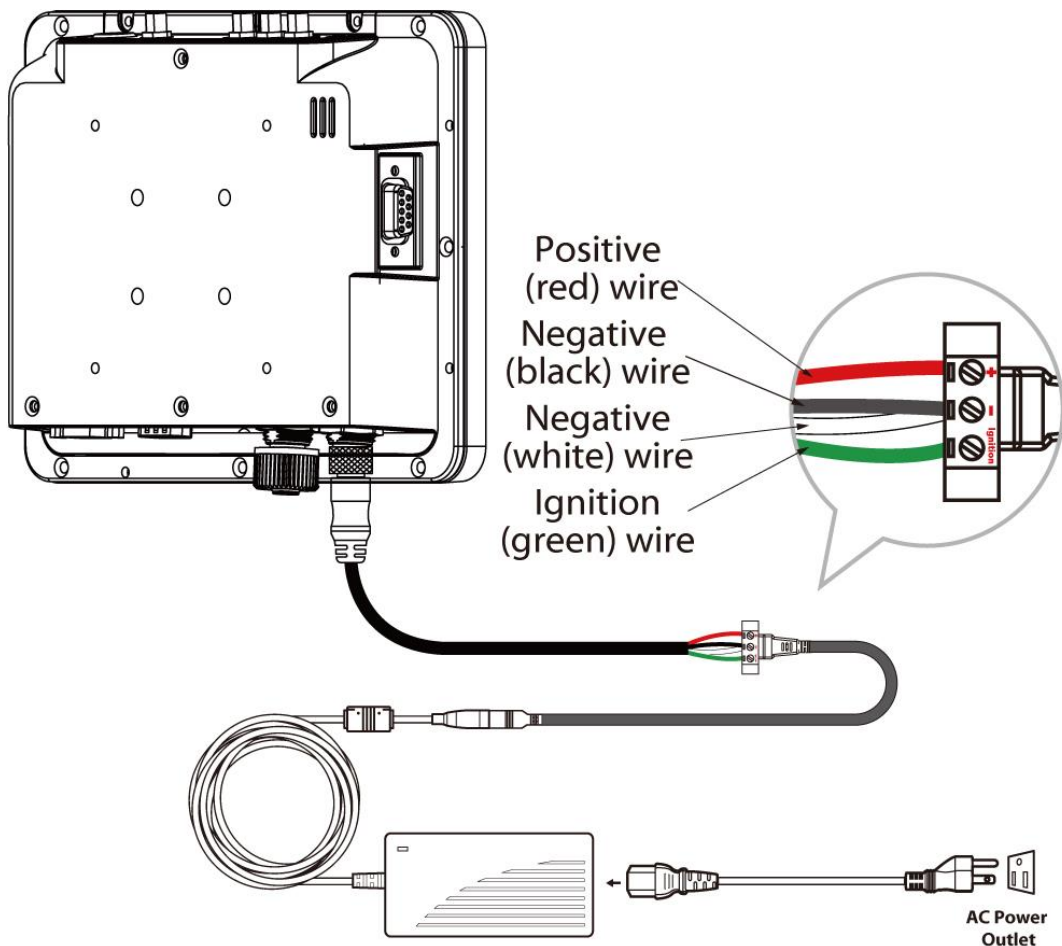
2.2.2 Connecting the Power Cable for Testing



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 M12 power cable to FM07E by aligning the connector pins and then push it, twist to fasten the connection.
3. Connect the AC plug to the electrical outlet.
4. Press the Power button, located on the top side of the FM07E.
5. The device is ready for testing.

2.2.3 Connecting the power cable for installation on the vehicle



WARNING!/ AVERTISSEMENT!

This power cable should only be used on the 12 to 36 Volt forklifts.

Ce câble d'alimentation ne doit être utilisé que sur les chariots élévateurs de 12 à 36 volts.



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.

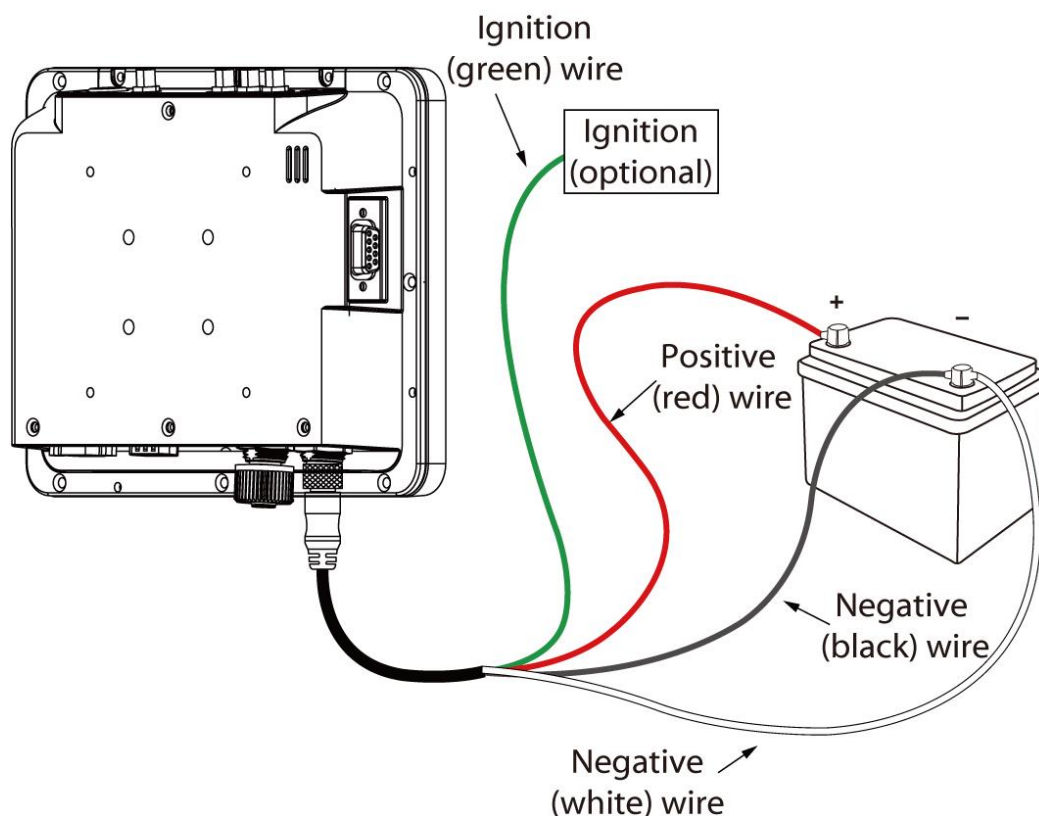


WARNING!/ AVERTISSEMENT!

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. Place **Red** (VCC +) and **Green** (ignition) wires as shown below.



WARNING!/ AVERTISSEMENT!

Use the supplied M12 power cable for all power wiring.

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

3. Slide tubing over wires, remove the wires and insert it to the fuse holder, crimp it.
4. Connect the **Red** wire to the vehicle's positive power source. Connect both **black** and **white** wires to the vehicle's negative power source.
5. Connect the **Green** wire to the vehicle's ignition switch for the ignition function.

Power cable description:

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

6. Press the power button on the top of the device See *Power Button*.

		With Ignition	Without Ignition
Power Mode		Ignition-On mode	AC/DC Mode
Turn On	Auto On	ON	Off
	Trigger On	✓	X
	Power Button	X	✓
On Delay		0 Second (Default) adjustable by AP	N/A
Turn Off	Trigger off	✓	X
	Power Button	✓	✓

2.2.4 Vehicle DC Power Supply

The power input voltage range for the FM07E is between 9 to 36V DC with ignition control.



Warning!/ Avertissement!

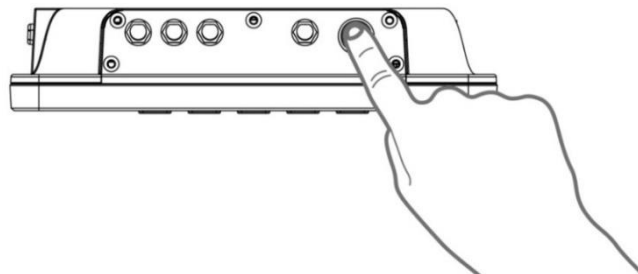
Longer cable length may cause voltage drop resulting in failure to boot the device , if you are unable to boot the device ,please check the line loss of your cable and make sure the power input for power connector of the unit is higher than 9V.

Une longueur de câble plus longue peut provoquer une chute de tension et empêcher le démarrage du périphérique. Si vous ne parvenez pas à démarrer le périphérique, vérifiez la perte de ligne de votre câble et assurez-vous que l'entrée d'alimentation du connecteur d'alimentation de l'unité est supérieure à 9V.

2.3 Power Control

2.3.1 Power Button

Power button is located on the top of the device. When the FM07E is connected to the external power and the power button is ON, the device can be powered on.



2.3.2 Ignition Control

The FM07E supports power ignition function.

2.4 External Connectors

2.4.1 Power Connector

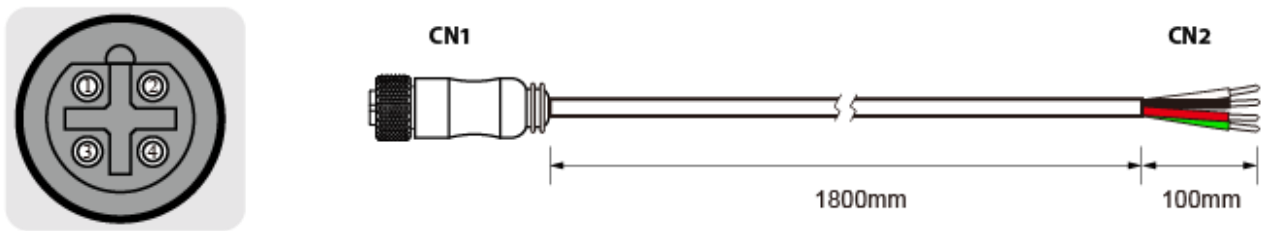
The FM07E has M12 type 4 pin power input connector which accepts 9-36V DC power input. Use power cable (supplied with FM07E) to connect the FM07E to the source of power.



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.

Pin Assignment and signal names of power cable

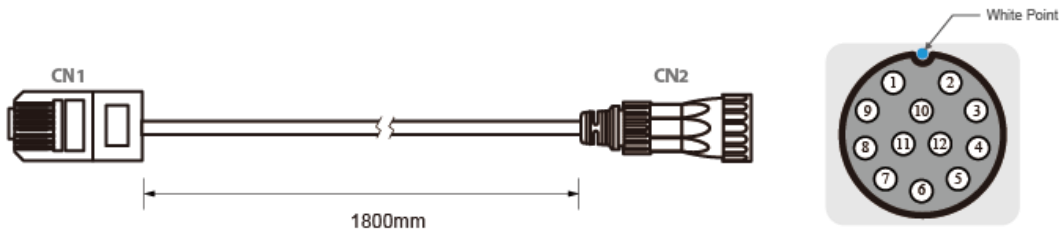


Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VIN+	Red	↔	CN2-1	VIN+	Red
CN1-2	VIN-	Black	↔	CN2-2	VIN-	Black
CN1-3	VIN-	White	↔	CN2-3	VIN-	White
CN1-4	IGN_IN	Green	↔	CN2-4	IGN_IN	Green

2.4.2 LAN Connector

The FM07E has M12 type 12 pin LAN connector. Use LAN cable (supplied with FM07E) to connect the FM07E to the Ethernet.

Pin assignment and signal names of LAN cable

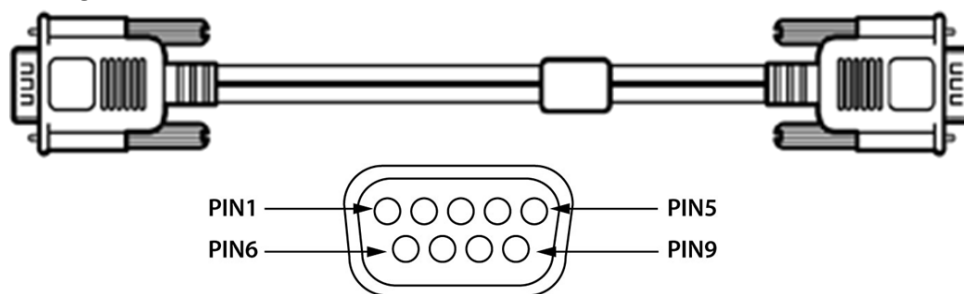


	Pin No.	Symbols	Color		Pin No.	Symbols	Color	
Twisted	CN1-1		white/orange	↔	CN2-1		white/orange	Twisted
	CN1-2		orange	↔	CN2-2		orange	
Twisted	CN1-3		white/green	↔	CN2-3		white/green	Twisted
	CN1-4		blue	↔	CN2-4		blue	
Twisted	CN1-5		white/blue	↔	CN2-5		white/blue	Twisted
	CN1-6		green	↔	CN2-6		green	
Twisted	CN1-7		white/brown	↔	CN2-7		white/brown	Twisted
	CN1-8		brown	↔	CN2-8		brown	
	CN1-9	NC		↔				
	CN1-10	NC		↔				

2.4.3 RS-232 Connector

The FM07E has DB-9 RS-232 connector. Use serial cable to connect the FM07E to external devices such as printer or scanner.

Pin assignment and signal names of RS-232 connector

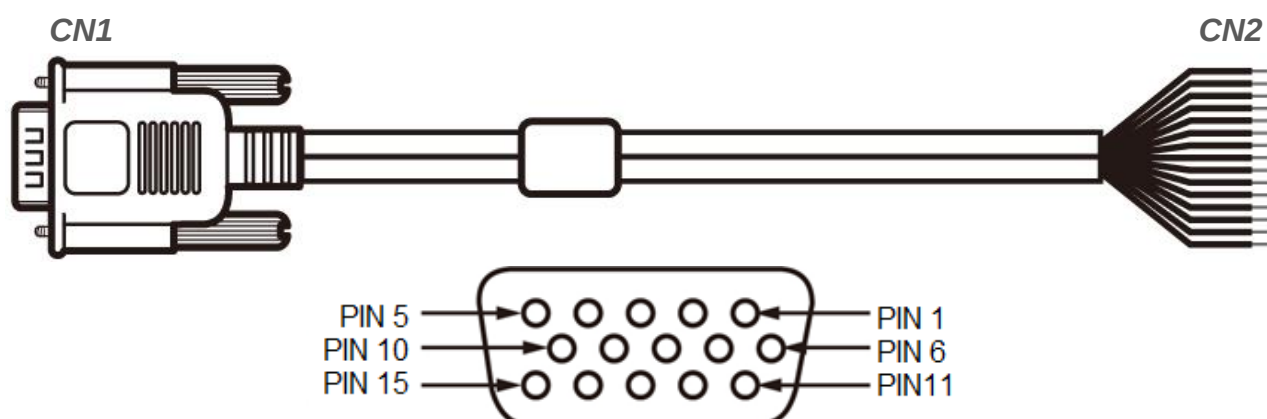


Pin	Signal	Description
1	DCD	Data Carrier Detect – Input
2	RXD	Receive Data – Input
3	TXD	Transmit Data – Output
4	DTR	Data Terminal Ready – Output
5	GND	Signal / Power Ground
6	DSR	Data Set Ready – Input
7	RTS	Request to send – Output
8	CTS	Clear to send – Input
9	+5 VDC	Barcode Scanner Power – 500mA Max

2.4.4 DIDO & CANBus Connector

The DIDO & CANBus connector is a DB-15 male connector located on the bottom side of the device. The connector supports a CANBus cable or a DIDO cable.

Pin assignment and signal names of DIDO & CANBus connector and cable

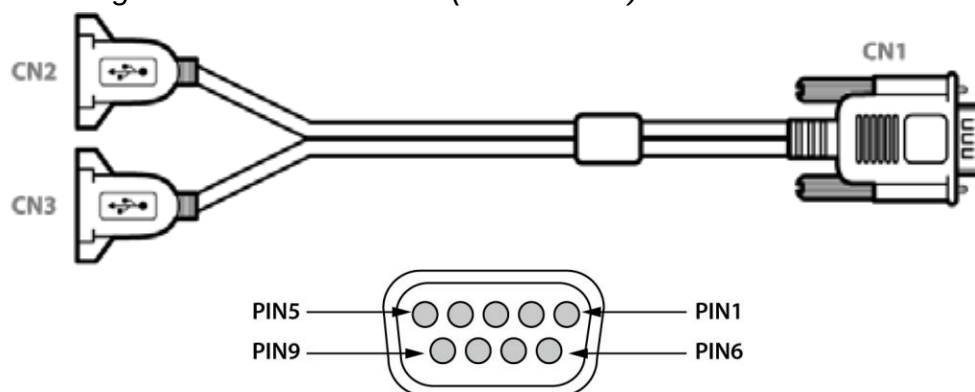


Pin	Signal		Pin	Signal
CN1-1	CAN_B_L	↔	CN2-1	CAN_B_L
CN1-2	CAN_A_L	↔	CN2-2	CAN_A_L
CN1-3	GND_ISO	↔	CN2-3	GND_ISO
CN1-4	CAN_B_H	↔	CN2-4	CAN_B_H
CN1-5	DIN0	↔	CN2-5	DIN0
CN1-6	DIN1	↔	CN2-6	DIN1
CN1-7	DIN2	↔	CN2-7	DIN2
CN1-8	DIN3	↔	CN2-8	DIN3
CN1-9	DIN4	↔	CN2-9	DIN4
CN1-10	DOUT0	↔	CN2-10	DOUT0
CN1-11	DOUT1	↔	CN2-11	DOUT1
CN1-12	DOUT2	↔	CN2-12	DOUT2
CN1-13	CAN_A_H	↔	CN2-13	CAN_A_H
CN1-14	NC	↔	CN2-14	NC
CN1-15	5V		CN2-15	5V

2.4.5 USB 2.0 Connector

The FM07E has DB-9 USB 2.0 connector located on the side that can support two USB devices such as printer or scanner.

Pin assignment and signal names of USB 2.0 (D-9 Female) connector and cable



Pin	Signal
CN1-1	GND
CN1-2	USB1_D+
CN1-3	USB1_D-
CN1-4	USB1_VCC
CN1-5	GND
CN1-6	GND
CN1-7	USB2_D+
CN1-8	USB2_D-
CN1-9	USB2_VCC

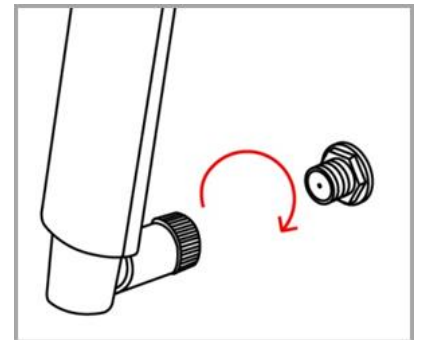


Pin	Signal	Description
CN2-1	USBVCC1	Red
CN2-2	USB1_DM	White
CN2-3	USB1_DP	Green
CN2-4	GND	Black
CN3-1	USBVCC2	Red
CN3-2	USB2_DM	White
CN3-3	USB2_DP	Green
CN3-4	GND	Black

2.5 External Vehicle Remote Antenna Installation

The FM07E is equipped with connectors for additional external antenna (WLAN, GPS or 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.



2.6 USB Keyboard/ Mouse

A standard USB keyboard or mouse can be attached to the FM07E using the appropriate cable. Attach the cable to the FM07E USB-A type connector.

Chapter 3: Software

This chapter describes how to operate FM07E Vehicle Mount Computer.

3.1 Setting Up Windows for the First Time

This chapter details how to setup the Windows that may be installed on the tablet for the first time.



Caution Make sure the battery is full charged before starting the Tablet Computer for the first time with internal battery power.

Attention Assurez-vous que la batterie est complètement chargée avant de démarrer la tablette PC pour la première fois avec la batterie interne.

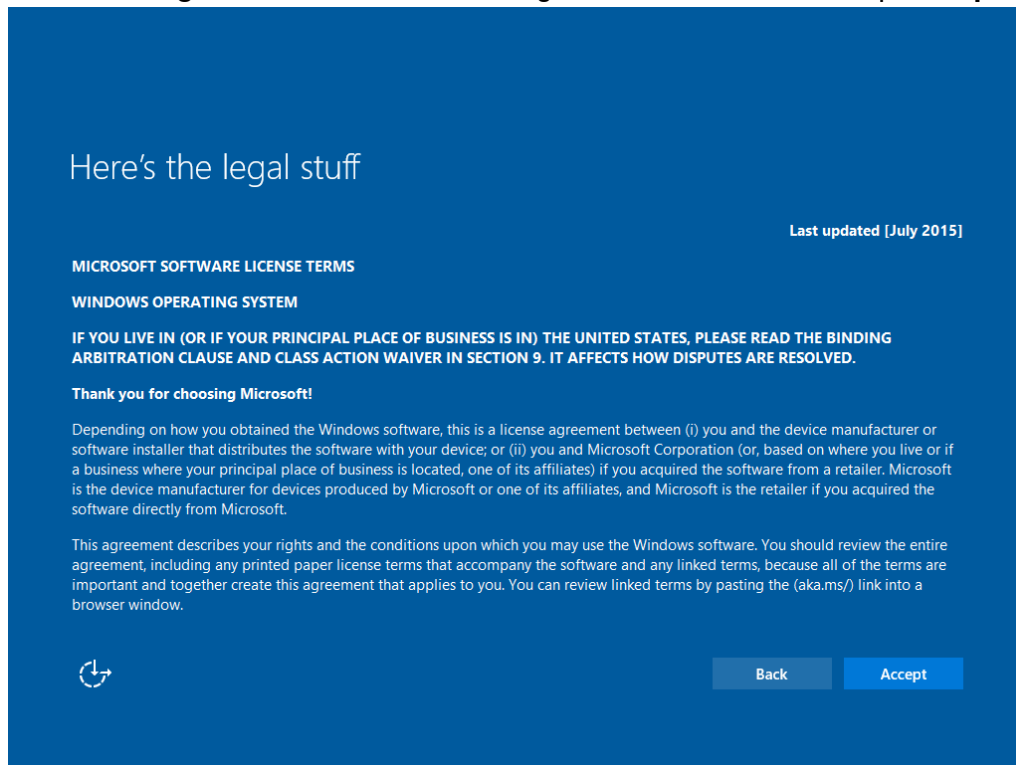
- **Public network:** Select this location if you do not recognize all the computers on the network. (For example, you are in a coffee shop or airport, or you have mobile broadband.) This is a public network and is *not* trusted. Select the location where you will most often use the computer.

3.2 Setting up Windows 10 IoT Enterprise

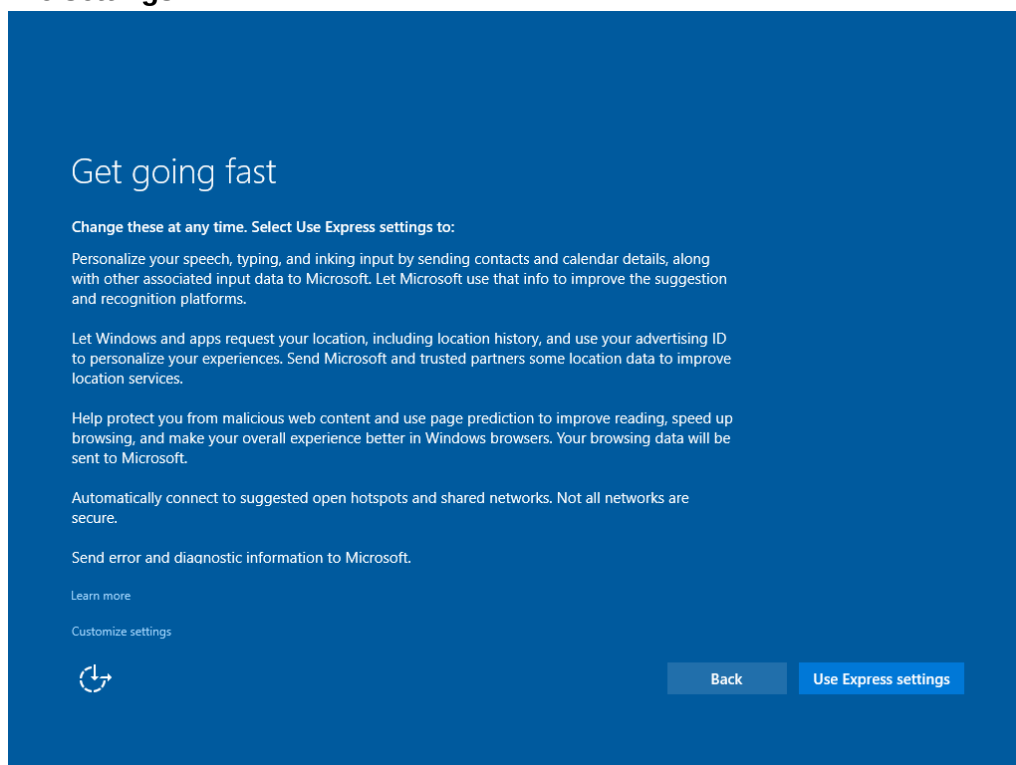
Follow the steps below to complete the Windows 10 IoT Enterprise setup process.

1. Press the power button to turn on the computer.
2. First, select your country/region, your preferred app language, your preferred keyboard layout, and your time zone, then tap **Next**.

3. On the **Here's the legal stuff** screen, read through the disclosures, then tap **Accept**.



4. Windows will then try to connect to network. Tap **Skip this step** to continue without a wireless connection as you can then set up the network later.
5. On the **Get going fast** screen, click **Use Express settings** for the fastest setup. If you would like more information, tap **Learn more**, or if you would like to select your own options, click **Customize settings**.



6. To create a local account, type your User name, password, and Password hint in the fields provided, then tap **Next**.

7. The initial setup screens are complete, and the desktop is displayed.
 8. Read any introductory screens describing features of your computer, and tap **Next** upon completing each. You are now done with the initial setup process.

3.3 Control Panel

3.3.1 Using the Touch Screen

The touch screen is a touch-sensitive device that allows you to control and make selections on the device by controlling the location of the pointer on the screen.



Note:

Do not use sharp or pointed objects on the touch screen. These objects may scratch the screen. Use only the stylus pen or the tip of your finger.

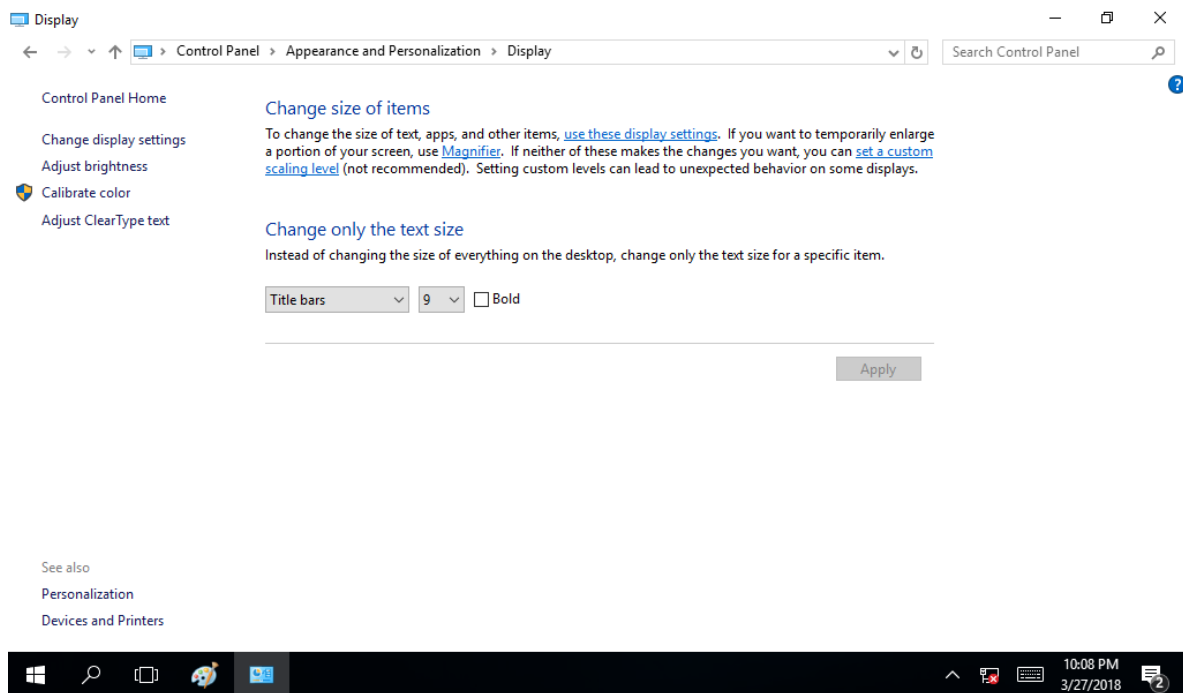
Here are some common terms when using the touch screen.

Gesture	Action	Description
Single Tap		Tap gently on the touch screen to select or open an item. Tapping is the same as clicking the left mouse button of a pc
Double-tap		Rapidly tap twice on the touch screen. This action is similar to double-clicking the left mouse button of a pc.
Press and hold		Press and hold the finger/ stylus lightly on the display. A big circle appears to indicate that a pop-up menu will soon appear. Lift up the stylus and a pop-up menu appear. Select the desired function. This action is similar to a right mouse click on a pc.
Drag		Hold the finger/ stylus on the screen and drag across the screen to select text and images or move icons to a new location.

3.3.2 Display

In the Windows 10 IoT Enterprise, user can adjust the resolution or adjust brightness. All these functions are managed through the control panel.

Start > Control Panel > Appearance and Personalization > Display

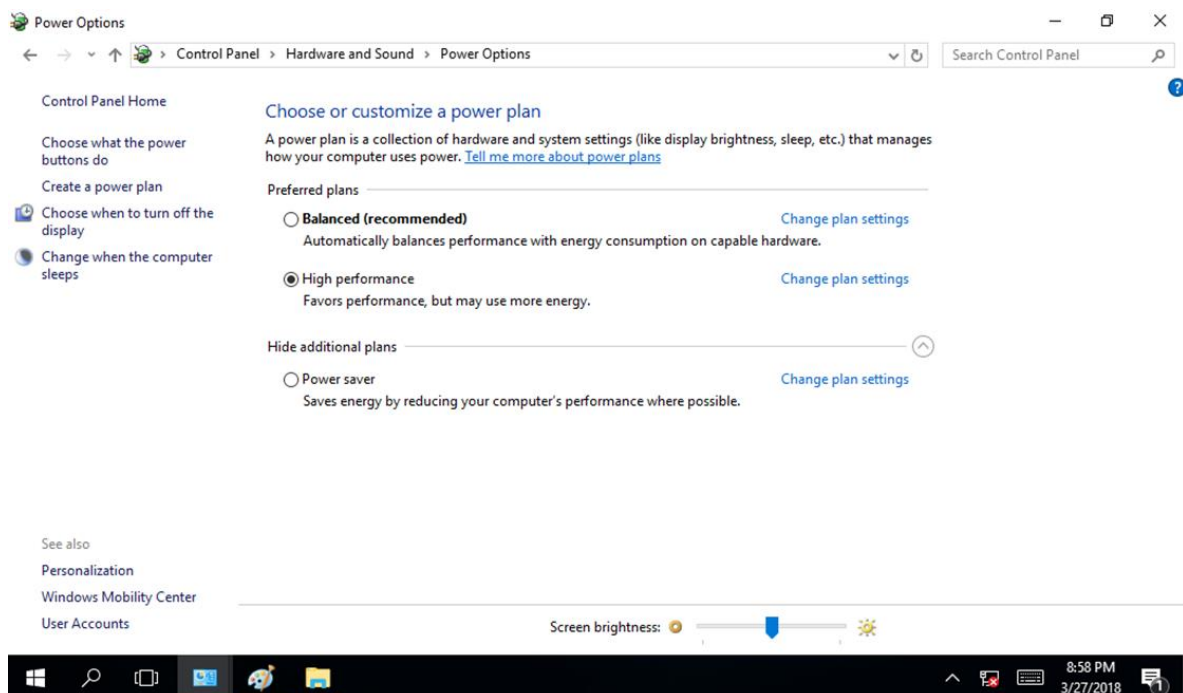


3.3.3 Power Options

Select a Power Plan

Windows 10 IoT Enterprise contains two standard options for power plan: Balanced and Power saver.

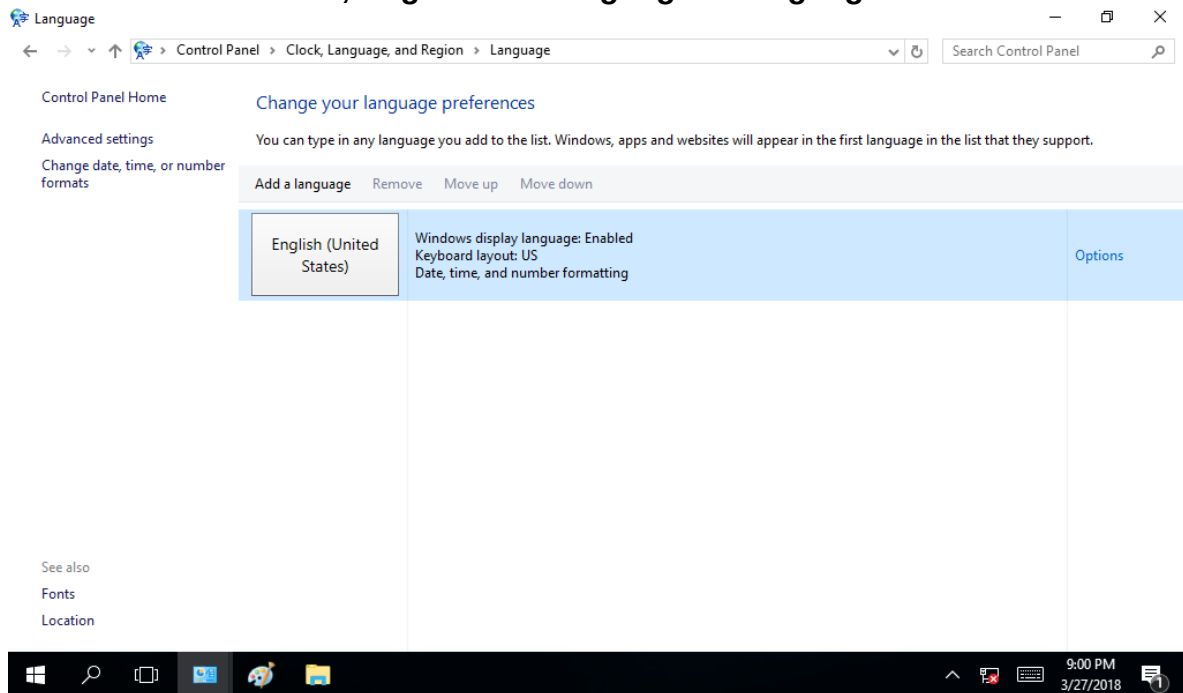
Start > Control Panel > Hardware and Sound > Power options



3.3.4 Region and Language

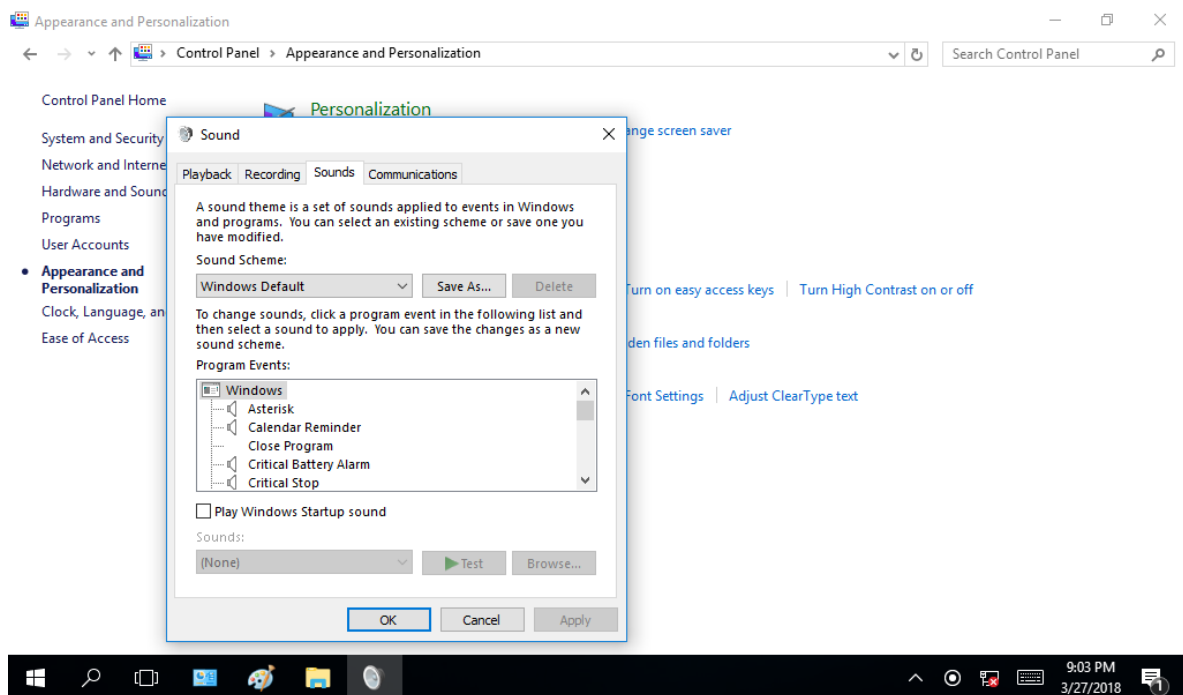
The instruction for installing, changing and uninstalling language in this section are applicable to FM07E with Windows 10 IoT Enterprise for Embedded System.

Start > Control Panel > Clock, Region and Language > Language



3.3.5 Sounds

Start > Control Panel > Appearance and Personalization > Personalization > Change sound effects



3.4 Winset Introduction

Winset provides quick access to the tablet's functions and features, such as setting up shortcuts, using camera, powering on/off built-in devices, programming function key, and changing power management.

To launch the Winset, double-tap on **Winset Utility Icon** . Operations and functions on each menu options is explained in detail in the coming section.

Winset Interface:

Item	Description
System Information	Provides system information such as BIOS version, EC version, Winset version, OS version, serial number, and model name. You can also set up password here.
Function Buttons	Set up function buttons functions.
DIDO Controller	Set up digital input/ output controller.

3.4.1 System Information

System Information	Function Buttons	DIDO Controller	Exit
PC Information			
BIOS Version		V002	
EC Version		002	
Win-Set Version		3.20.0(VMC07)	
OS Version		95Z0000003MO_221103	
Serial Number		123456789	
Model Name		IE30A	
☐ Check for update			
Password		Set Password	

3.4.2 Function Buttons

System Information	Function Buttons	DIDO Controller	Exit
Short Press 1Sec. 2Secs. RESET			
F1	FSCapture	NEW	DEL
F2	MfcClickC	NEW	DEL
F3	comdebug	NEW	DEL
F4	FSCapture	NEW	DEL
F5	MfcClickC	NEW	DEL

3.4.3 DIDO Controller

System Information	Function Buttons	DIDO Controller	Exit
DIDO Controller DO ☐ DO0 ☐ DO1 ☐ DO2 <button>Set</button> DI ☒ DI0 ☒ DI1 ☒ DI2 ☒ DI3 ☒ DI4			

3.5 Using the Wireless WAN (4G/LTE)

The FM07E supports data 4G/LTE connection.

Before using the data connection program, please insert the Micro-SIM card to your vehicle mount computer.

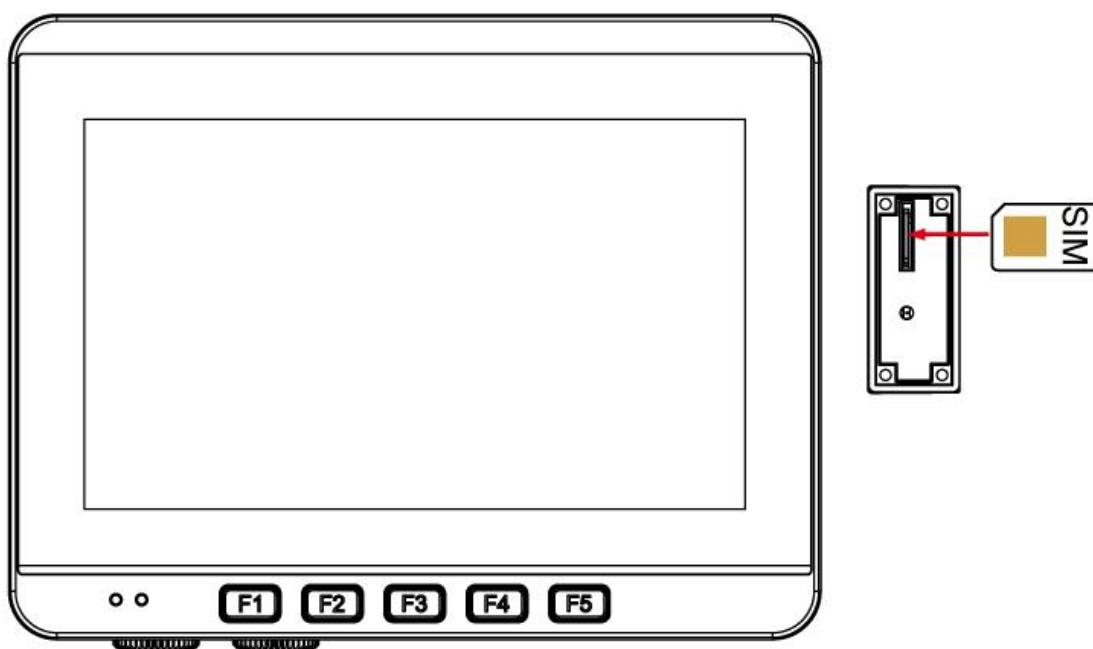


Caution/ Attention

Please power off the tablet before installing the Micro SIM card, or the device might be damaged by the incorrect installation behaviors.

To insert SIM-card:

1. Power off the FM07E.
2. Remove the service window on the side by unscrewing four screws.
3. Insert the SIM card into the slot.
4. Reposition the removed service window and fasten four screws.



3.6 Using Recovery Wizard to Restore Computer

The FM07E Vehicle Mount Computer has a dedicate recovery partition stored on the hard drive of the vehicle computer to enable quick one-key recovery process. This partition occupies about 11GB of the storage space, and comes built-in to each device.



Important:

Before starting the recovery process, make sure to backup all user data. The data will be lost after the recovery process.

To enable quick one-key recovery procedure:

- Plug-in the AC adapter to computer. Make sure the computer stays plugged in to power source during the recovery process.
- Connect external keyboard.
- Turn on the computer, and when the boot screen shows up, press the **F6** button on the keyboard to initiate the Recovery Wizard.
- The following screen shows the Recovery Wizard. Click **Recovery** button to continue.



A warning message about data loss will show up. Make sure the data is backed up before recovery, and click **Yes** to continue.



Wait the recovery process to complete. During the recovery process, a command prompt will show up to indicate the percent of recovery process complete. The system will restart automatically after recovery completed.

Chapter 4: Vehicle Mounting

This chapter describes how to mount the FM07E Vehicle Mount Computer. The FM07E is designed to be mounted inside the vehicle with RAM mount or VESA mount.

4.1 Vehicle Mount Instruction

Make sure that the FM07E does not obstruct the driver's vision and ensures safe driving. The general steps to mount the device on the vehicle are as follows:

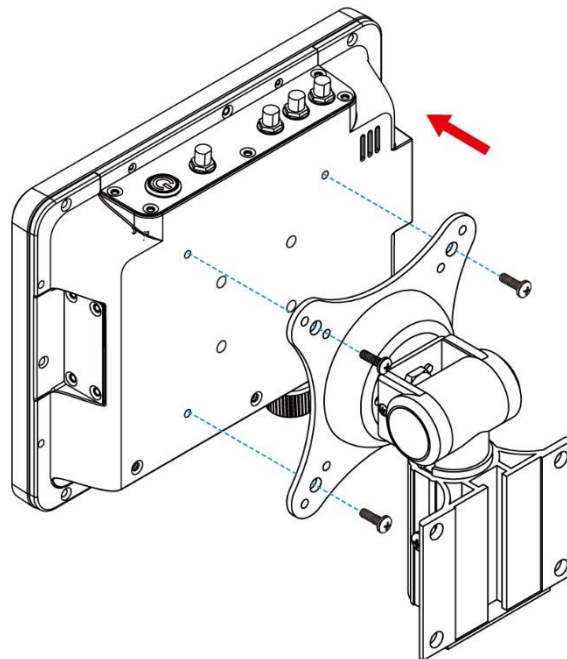
1. Install RAM mount to the vehicle.
2. Adjust the viewing angle of the FM07E.
3. Install antennas if necessary.
4. Connect peripheral devices and cables.
5. Connect vehicle power.
6. Secure all cables.

4.2 VESA Mount Installation

The rear cover of the FM07E supports VESA mount (75 x 75 mm).

VESA Mounting Installation Instructions:

1. Attach the VESA Plate to the rear cover of the FM07E using 4 x M4 mm Phillips screws.
2. Follow instructions provided by VESA mount parts supplier.



4.3 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

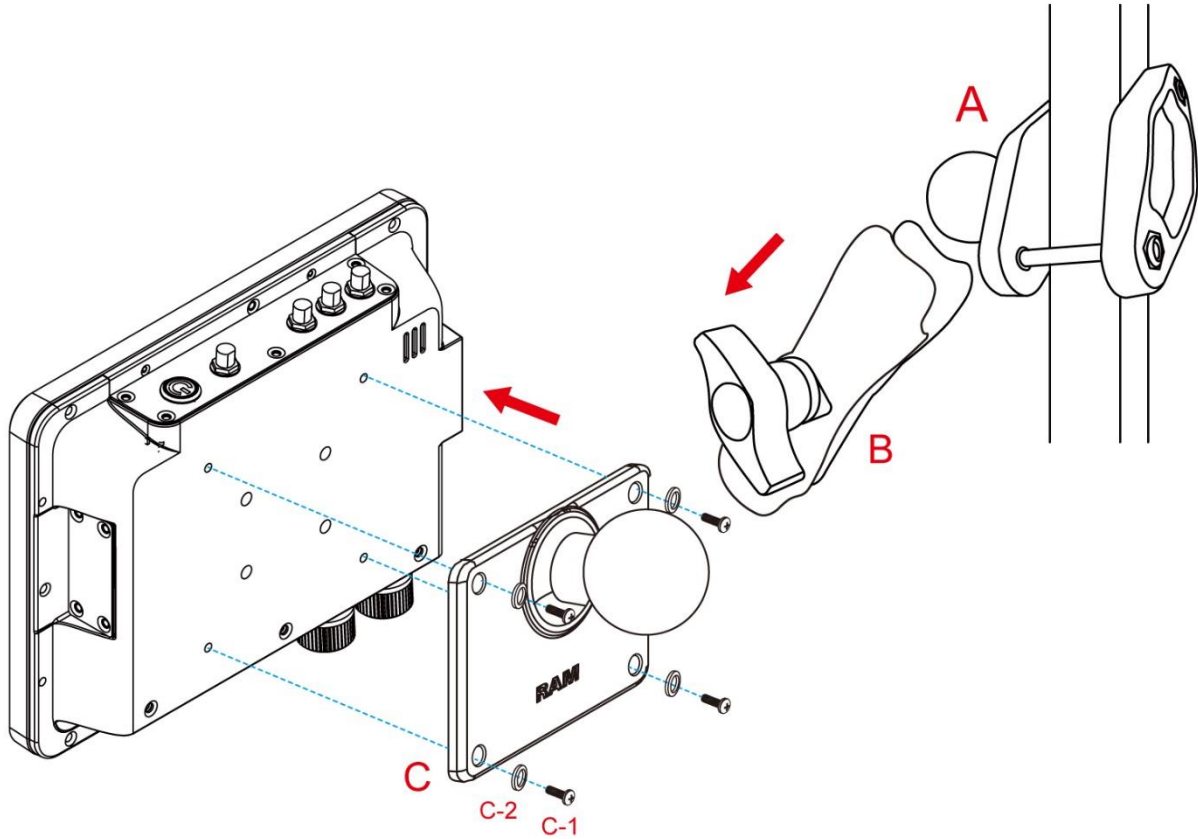
Screw: 4 x M5-0.8x10 mm Phillips screws


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.

4.3.1 Mounting 1 – No Drill Solution

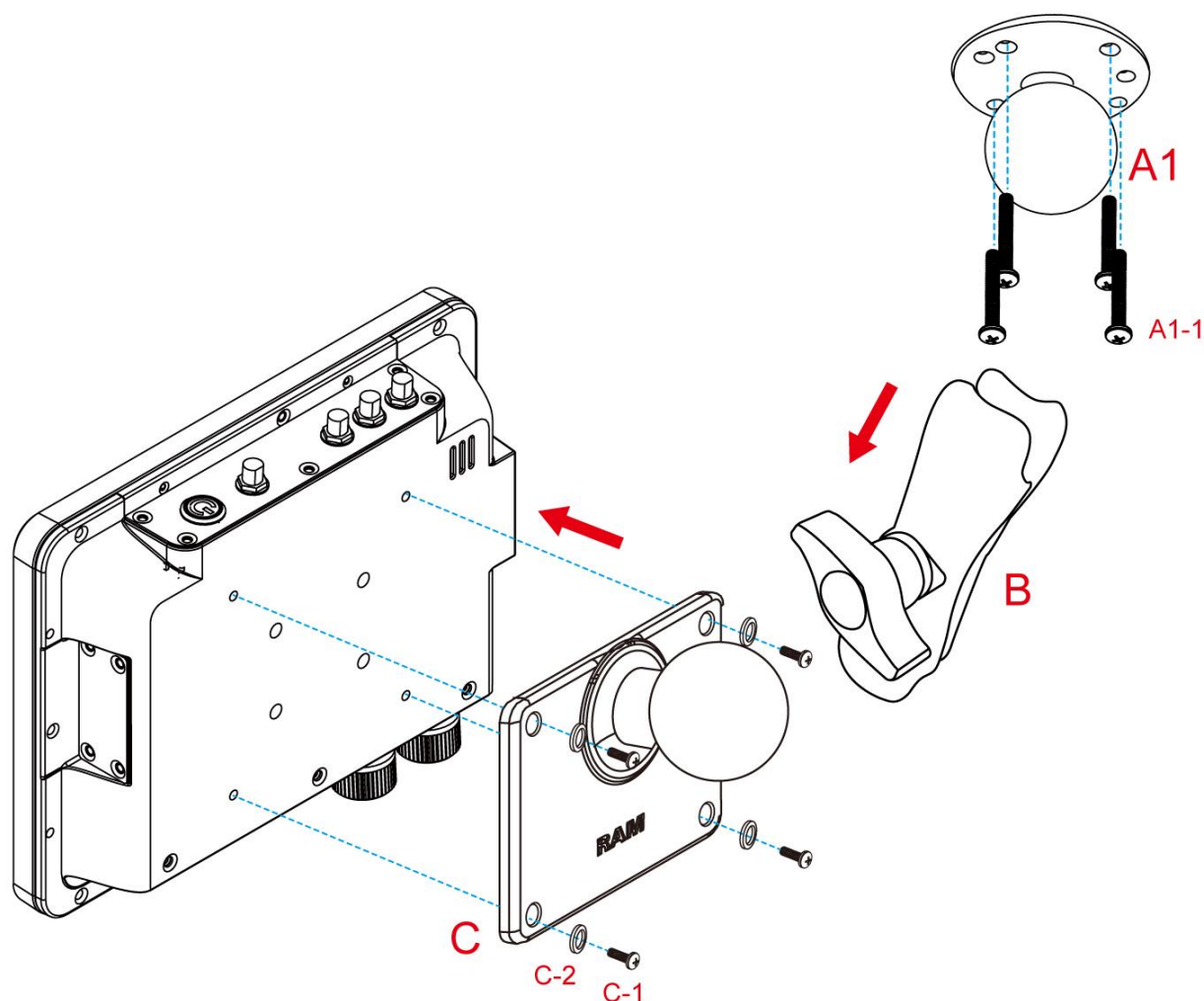
You can order mounting accessories from RAM Mounts.



No	Component	RAM Mount Part Number	Description	QTY
A	RAM Clamp Mounts - on the forklift	RAM-D-247U-4	Clamp base with 2.25" Ball	1
B	RAM Arm	RAM-D-201U	Arm for 2.25" Ball(L:8.375")	1
C	RAM Ball on the device side	RAM-D-2461U	75x75mm VESA with 2.25" Ball	1
C-1	Screw	-	SUS304 M4 x 12mm Screw	4
C-2	Washer	-	M4 Washer	4

4.3.2 Mounting 2 – Drill Solution

You can order mounting accessories from RAM Mounts.



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	4
B	RAM Arm	RAM-D-201U	Arm for 2.25" Ball (Length:8.375")	1
C	RAM Ball on the device side	RAM-D-2461U	75x75mm VESA with 2.25" Ball	1
C-1	Screw	-	SUS304 M4 x 12mm Screw	4
C-2	Washer	-	M4 Washer	4

4.3.3 RAM Mount Assembly

Step 1 Install RAM Clamp to vehicle or forklift

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

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

- 2.1 Please make sure that the surface is flat and rigid.
- 2.2 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.

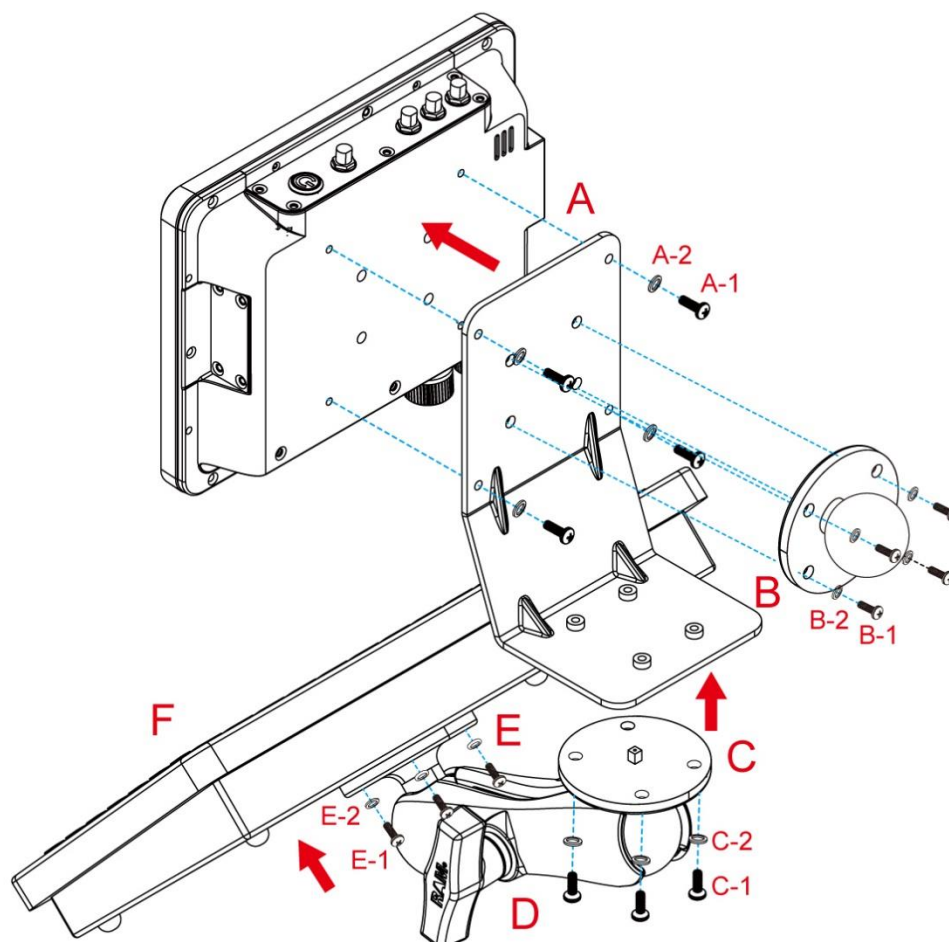
- 3.1 Turn the device off before installing the RAM mount ball.
- 3.2 Locate the VESA mount holes on the back of the device and align it with the holes from RAM Ball base. Fix with four M5 screws.

Step 4 Attach the device to RAM arm.

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

4.3.4 Mounting 3 – Keyboard Mounting Installation

You can order mounting accessories from RAM Mounts.



No	Component	RAM Mount Part Number	Description	QTY
A	Winmate Keyboard Adapter Plate (designed by Winmate)	-	4 VESA Holes on the plate to device and 4 AMPS holes to RAM Ball	1
A-1	Screw	-	SUS304 M4 x 10 mm Screw	4
A-2	Washer	-	M4 Washer	4
B	RAM Ball on the sloped part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1
B-1	Screw	-	SUS304 M5 x 16 mm Screw	4
B-2	Washer	-	M5 Washer	4
C	RAM Ball on the bottom part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1
C-1	Screw	-	SUS304 M5 x 12 mm Screw	4
C-2	Washer	-	M5 Washer	4
D	RAM Arm	RAM-201U	Arm for 1.5" Ball (Length:5.6")	1
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 M5 x 12mm Screw	4
E-2	Washer	-	M5 Washer	4
F	Keyboard	-	-	1

Appendix A: Product Specifications

FM07E- 7-inch Vehicle Mount Computer	
Item	Specifications
System	
Processor	Intel® Celeron® Elkhart Lake N6211 Processor (1.5M Cache, up to 3.00 GHz)
System Memory	4GB SO-DIMM, DDR4 3200 (up to 16GB)
Storage	128GB M.2 2242 SSD
Operating System	Windows® 10 IoT Enterprise, Ubuntu 20.04
Security	TPM 2.0
Display	
Size / Technology	7 inches
Resolution	1024 x 600
Viewing Angle	75,75,75,70
Brightness	1000 nit
Contrast Ratio	700:1 (typ.)
Touch	Projected capacitive multi-touch screen
Interface	
Computer	1 x RS-232 1 x Gigabit Ethernet LAN (M12 type) 2 x CANBus, 5 x DI, 3 x DO 1 x Power input 9-36V DC with ignition 1 x SIM Card Slot 2 x USB for DB9 1 x Micro USB WLAN Antenna GPS Antenna (Optional) WWAN Antenna (Optional)
Keyboard and Input	
Button	1 x Power Button, 5x Function Button (Programmable Function Key Configured by Winset)
LED Indicators	Power, Storage
Wireless Communications	
WLAN	support
GNSS	GPS, GLONASS
WWAN	Optional 4G/ LTE
BT	Support
Audio	
Speaker	1 Watt speaker, located on the back cover
Mechanical Specifications	
Dimensions	190 x 146 x 40 mm
Cooling System	Fanless design
Weight	1.25 kg
Mounting	RAM Mount, VESA Mount (75x75 mm)
Environment Considerations	

FM07E- 7-inch Vehicle Mount Computer	
Item	Specifications
Operating Temperature	-20°C to 60°C
Humidity	10% to 95% RH, non-condensing
IP Rating	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I, 30 g for 18 ms, 300 m/s ²
Vibration	MIL-STD-810G Method 514.6 Procedure I, 1.60/ 1.96/ 2.18 g rms for XYZ/ 5-500 Hz
Power Management	
Power Input	9V-36V DC with ignition control
Standards and Certifications	
Safety	CE, FCC



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