

GLOBAL POC RADIOS

RADIO MANUAL



Models Covered:

FUSION X

The **FUSION X** 2-way walkie-talkie radio represents our cutting-edge communication device(s) that features radio services over cellular connectivity, ensuring that you remain connected no matter where you are with the touch of a button. By leveraging the XIN 2-way international radio network, you can maintain contact with your team or participate in public community groups, facilitating uninterrupted radio discussion. With FUSION X communication products, you are perpetually connected.

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Network – How to use

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Device Introduction

The FUSION X GLOBAL Radios can deliver Voice over Data (VOD) services to nearly any location using cellular broadband technology. With a simple press of the push-to-talk button, users can access fast, reliable, and private communication, ensuring uninterrupted connectivity for voice interactions.

Package Contents

Your package has the following items:

- **FUSION X GLOBAL Radio Head Unit**
- 1 x Single Docking Station
- 1 x Headset Microphone
- 1 x Power Adapter
- 1 x USB-C Cable
- 1 x Lanyard
- 1 x Manual Insert

SIM Card Information

A SIM card WILL NOT be preinstalled inside the radio.

To install the SIM card:

1. Ensure that power to the radio is off.
2. Open the SIM Slot cover
3. Push the SIM into the slot.
4. The SIM should lock into place by using your finger to lock the SIM into the slot.

This device offers dual SIM capability, however if you are using one SIM card you should always use SIM card slot #1.

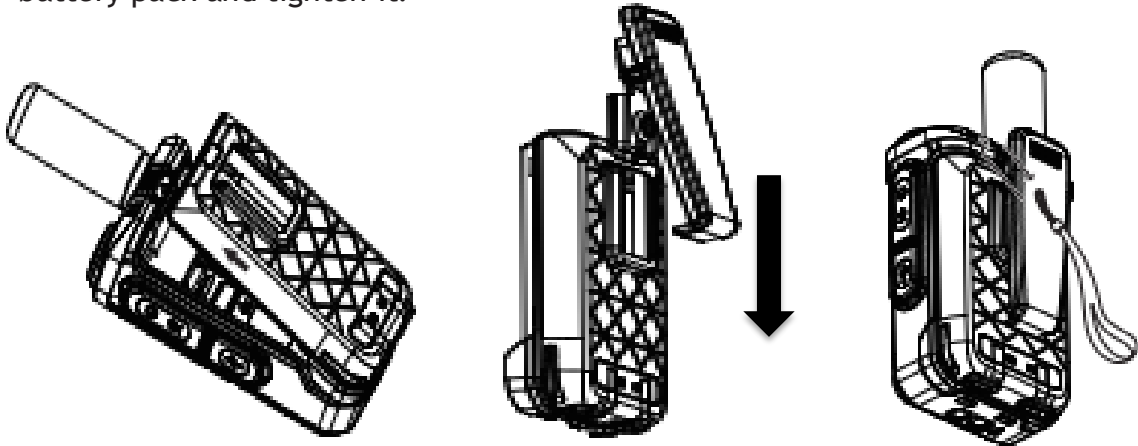
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Battery & Belt Clip Installation

Installing/Removing Belt Clips

Align the randomly configured belt clip with the back clip on the back of the battery pack and tighten it.



Installing/Removing Battery

Align the two grooves of the battery with the corresponding guides on the aluminum shell on the back of the walkie talkie, ensuring that the battery is in full contact and parallel to the aluminum shell.

Push the battery horizontally along the aluminum shell guide rail on the back of the walkie talkie until the battery locking buckle on the walkie talkie base is locked.

To remove the battery, please confirm that the walkie talkie is turned off and press down on the battery lock button.

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Power button.

Let's go over the buttons and functions that will help you get used to your new radio unit



Now that you know your buttons we power on the radio, all other functions will be discussed later in this manual.

Power On/Off key (BLACK Side key)

- Push in and hold the Power button for 3 seconds to turn on the radio.
- Push in and hold the Power button for 3 seconds to turn off the radio.

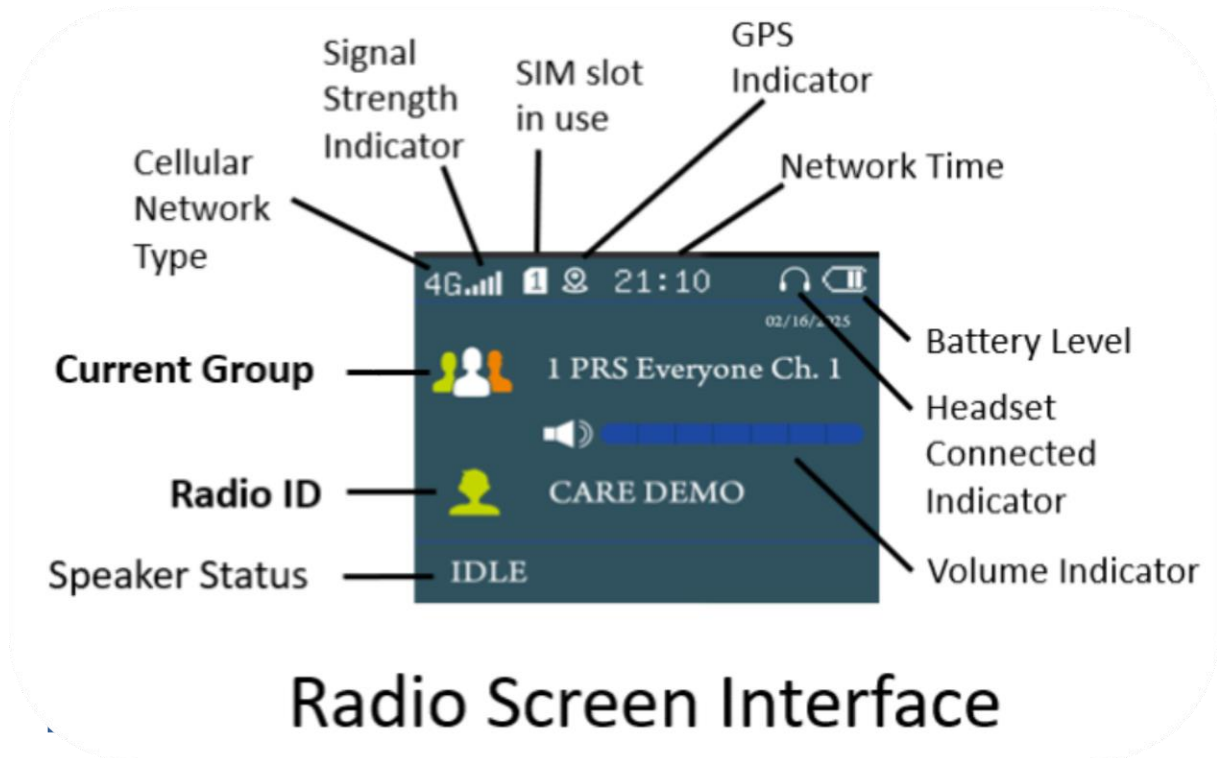
Once the radio has powered up you will be taken to the main display screen below:

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Front Panel display screen.

The radio displays status information on the front panel. (From top to bottom)



Let's go over the buttons that will help you get used to your new radio unit.

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PTT (Push to talk button on microphone). – The large push to talk button is found on hand microphone and is easy to use. Just press and hold for 1 second before you start talking and then hold while transmitting your message and then release when done.

Vol+/Vol- - These buttons control the volume of the radio and are the up and down selectors for any options.

Menu – This button allows you to display and select the available options such as settings, members and groups.

OK – This button acts as the confirm button for entry changes.

OK/SOS - This button when held down for 3 seconds will trigger the SOS activation mode, to end SOS just press the same button again.

Power/Exit. – This button allows you to exit any current menus options and services as the radios off and on button, See Power button for details.

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Options menu.

There are 5 options to choose from when pressing the menu button.

1. Group
2. Member
3. Settings
4. [Network](#)

To choose from any of these options use the front arrow buttons and then hit the OK button to enter the desired menu.

1. Group menu.

The following choice allows you to select the desired GROUP channel you want to enter. Use the front arrow buttons and then hit the OK button to enter the desired group.

2. Member menu.

The following choice allows you to select the desired member you want to have a 1 on 1 private conversation with. Use the Use the front arrow buttons and then hit the OK button to select the desired member. Reminder that the members must be online to communicate with.

3. Network menu.

The following choice allows you to see your current satellite connectivity status and provides detailed signal information.

4. Settings menu.

The following options will help you customize your radio unit. The number below corresponds with the choice settings.

Available options are:

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Display settings.
Volume settings.
Key wakeup settings.
Call in wakeup settings.
Voice play settings.
Power savings settings.
Signal value information.
Double card SIM card settings.
Battery Information.
System Information.
Service Information.
GPS Information.
IMEI QR Code and Information.
Restore factory settings.
APN settings.
Single Call Set.

1. Display Settings:

Available options are:

- Dormancy Settings: This allows you to set the desired radio screen alive time.
- Back Light Settings: This allows you to set the desired screen brightness.
- Language Settings: This allows you to set the desired radio language.
- Time Zone Settings: This allows you to set your current GMT time zone.

2. Volume Settings:

Available options are:

- Volume: This allows you to set the desired loudspeaker volume.
- PTT prompt tone: This allows you to turn on/off the PTT Tone.
- Keypad Tone: This allows you to turn on/off the touch key tones.

3. Keypad Lock Settings:

This choice allows you to set the radio keypad lock to avoid unwanted touches or radio choice changes. Available settings are: Automatic, Manual and OFF.

Note: Holding down the menu button for 3 seconds will also activate the Keypad Lock feature, hold for 3 more second to release the lock.

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4. Key Wakeup Screen Settings:

This choice allows you to wake up the screen display with the touch of any key. Available settings are: ON and OFF.

5. Call in wakeup Settings:

This choice allows you to wake up the screen display with any type of PTT call. Available settings are: ON and OFF.

6. Voice play Settings:

This choice allows you to use the guided voice prompts for every single prompt and action. Available settings are: ON and OFF.

7. Power saving mode Settings:

Adjust the radio's power consumption settings depending on your needs. Available settings are: High efficiency, Power Saving, Superpower Saving.

8. Signal Value Information:

Displays the current radio signal value, if you are having signal issues this menu can help provide the current RSSI signal score. Score range -48~-120 dB is acceptable for radio use.

9. Double SIM card Settings:

This setting allows you to set the priority SIM card slot. I recommended to always leave at Automatic for best performance.

10. Battery Information:

Displays the current battery state of the radio in score value and the available talk time remaining on the radio unit.

11. Service Information:

Displays the current radio network information:

- Current Group
- My Radio user ID
- Operator for SIM Slot 1
- ICCID for SIM Slot 1

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- Operator for SIM Slot 2
- ICCID for SIM Slot 2

12. GPS Information:

Displays the current GPS state of the radio. Feature must be activated by the provider to use this feature.

13. IMEI QR Code Information:

Displays the current radio IMEI number and scannable QR code.

14. Reset Factory Settings:

This setting allows you to reset the radio back to its factory state.

15. APN Settings:

Allows you to choose the APN type. Available options are Station APN, Auto APN, and Manual APN. It is highly recommended that you do not change this section unless you're told by a trained staff member.

16. Single Call Settings:

Allow you to allow or prevent 1 on 1-member direct communication.


Optional Radio features.

In this section we will review the radio choice features that are available for an added cost.

- GPS Radio tracking and SOS Alerts service(s). Available with the purchase of the advanced packages, visit <https://fusionxradio.com>


1. GPS Device tracking.

This feature allows the company dispatcher or mobile application users to the exact location of the radio units assigned with this feature.

- When the  GPS icon is white this will show that the GPS is available but unable to receive a signal from the satellite.

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- When the  GPS icon is green this will show that the GPS is receiving a signal from the satellite.

2. SOS Alert features.

This feature allows the company dispatcher or mobile application users to an urgent ALERT from the radio upon activation of the SOS alert.

- This feature is available upon holding the flashlight button down for 3 seconds.

Radio functionality tips.

Features and tips:

Poor and no signal issues:

Note: When in a weak signal environment and with poor call quality, you can choose power save mode or normal mode. The call quality will be improved, but the machine also consumes more power.

Automatic screen shutdown:

If there is no button operation within the set time, the radio will automatically shut down the screen.

Transmit prompt sound:

After enabling this function, press and release the PTT key will emit a "beep" prompt sound, which will improve the call experience. When this function is turned off, pressing the PTT key will result in no prompt sound.

Top LED display light:

The top LED will help you to show the current radio status.

Status	LED Indication	Time
Search Network	Green light flashing fast	
Awaiting	Blue/Green light flashing slowly	0.5S on, 3.5S off
Transmitting	Constant Red	
Receiving	Constant Blue	

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Using earpiece headset:

Included with every FUSION X Radio, the earpiece headset provides microphone and headset listening when plugged in.

Battery charge:

It is imperative to always keep your radio unit charged to avoid loss of use.


Select a group (Group call):

Press the green menu button then select the group menu, by pressing the  front selector buttons to browse the available group:

Press the green menu key to confirm entry into the group and you will be added to the group.

Select members to 1 on 1 chat with. (Private radio call)

Press the menu key and then select the member choice to enter member selection and press

the  front selector buttons to browse the available members:

• **Press the green menu key to confirm the choice of the member.**

Now you can press the PTT button, a private call can be made to the member accompanied by a prompt sound and screen display.

Solving guidance for problems:

Phenomena	Solving guidance
Equipment unresponsive	<ul style="list-style-type: none">• Low battery level: The battery may have been depleted, please replace the battery or charge it.• SIM card malfunction: Check or renew/replace the SIM card.• Poor battery contact: Reinstall the battery or clean the battery contact points.
Insufficient standby time	<ul style="list-style-type: none">• Battery performance degradation: replace the battery or buy one more battery for later use.
Charging fault	<ul style="list-style-type: none">• Battery performance degradation: replace the battery• Poor connection: Check the connect condition

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	<ul style="list-style-type: none"> or replace the charging cable • Low battery voltage: Charge for about half an hour, then unplug and recharge again • Battery malfunction: replace the battery • Charger malfunction: replace the charger
Unable to connect to the network	<ul style="list-style-type: none"> • Signal too weak: Move area and retry <p>Not on server: Confirm that the SIM card has been installed, and the SIM card is in normal use state. Confirm the local telecom operator has a band covering the radio.</p>

Technical and Environmental

Specifications

Model	FUSION X	Battery capacity	4000mAh	SIMCARD	Dual SIM card
Device name	FUSION X POC LTE RADIO	Hotstart	4s	GPS Performance	
Working voltage	DC: 3.4V-4.2V, typical value 3.8V	Coldstart	55s	Frequency	1575.42MHz
Network LTE Bands	1/2/3/4/5/7/8/12/13/14/17/66	Charging Mode	TYPE-C	Capture sensitivity	-143dBm
Maximum transmit Power	FDD-LTE Power Class 3 (23 +/- 2dBm)	Antenna	built-in FPC	Update rate	2-4HZ
Standby	100hours	Operating temperature	-20°C~+60°C	Power consumption	35mA
Reception sensitivity	FDD-LTE -94 dBm(20MHZ)	Weight	6.6 oz.	Rated audio power	500mW
Dimensions: 3.66" Tall x 2.29" Width x 1.33" Depth			Platform: XIN POC		

Radio WIRED connectivity Interface(s):

- 1 USB-C port for charging (bottom of radio).
- 1 USB-C port for programming (left side of radio).
- 1 3.5mm Port for external handset/headset/microphone.

Radio WIRELESS connectivity Interface(s):

LTE

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Radio antenna connectivity Interface(s):

Built in antenna for both LTE and GPS

Radio mobility connectivity Interface(s):

Dual Nano SIM card slots

Radio software Interface(s):

FUSION X XIN Radio Platform

Radio Key Features:

Factory unlocked devices can be used with any carrier.

Support

Thank you for buying this FUSION X product. You can visit <https://fusionxradio.com> support to obtain more information about your product, get help, access the latest downloads and manuals.

Compliance

For regulatory compliance information, visit <https://fusionxradio.com>

See the regulatory compliance document before connecting the power supply.

Trademarks

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Warranty

FUSION X PRODUCT LIMITED WARRANTY TERMS AND CONDITIONS

This FUSION X® branded product, as supplied and distributed by FUSION X and delivered in new condition, and is protected by FUSION X® against manufacturing defects in materials and workmanship for a limited warranty period of:

- 1) 1 year from the date of purchase.

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FUSION X USA
847 S Randall Road
Ste 400
Elgin, IL 60123
USA

FCC Declaration of Conformance

This device follows 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.

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

This equipment has been evaluated and found to follow the limits for a Class B digital device, following 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 in 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 found 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 move 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.

Operations in the 5.850-5.895GHz band are restricted to indoor usage only.

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FCC RF Radiation Exposure Statement (SAR)

This Transmitter must not be co-located or working in conjunction with any other antenna or transmitter.

This equipment follows FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and used at a minimum distance of 35 centimeters between the radiator and your body.

Safety Warnings

Do not use any other power adapter except the one that goes with this unit, or a power adapter shown in the list below.

Use of another adapter could result in damage to the unit.

The following power adapter is qualified for use with this FUSION X® radio: (specified the adapter specifications, brand, make, type and other restrictions)

Caution

Ensure to connect the power cord of power adapter to a socket-outlet with grounding connection.

Safety and Compliance

Read before Use

We recommend you read the following sections thoroughly before use. FUSION X USA is not liable for malfunctions or damage resulting from misuse of the modem.

Safety Precaution

Please see the following safety precautions.

Use the chargers, cables or accessories approved by the device manufacturer.

Do NOT disassemble or change the device. Doing so voids the warranty.

Prevent wetness from penetrating internal parts. Using the device in wet or damp environment (for instance, charging it in a wet environment like bathtub or bathroom) may result in malfunctions.

Do NOT use this device near source of heat or fire, such as oven, microwave, stove, or heater.

Keep your device away from cooking appliances.

Do NOT place the device in places with heated atmosphere (dryer, sauna, hot water).

Do NOT use the device and disconnect all cables at places with fire or explosion risks.

Avoid strong physical impact (heavy objects or excessive force).

Keep your device away from liquid or conductive materials.

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Do NOT charge the device when either the device, the adapter, or the cable are wet. It may cause short-circuit.

Power off the device when near medical equipment or high-precision control systems to avoid potential interference.

Charge with specified voltage only.

Place the device on a flat, stable surface for best use.

Keep the device and adapter away from children and pets.

The device must be disposed of following the locally applicable environmental regulations.

Keep the device away from magnetic items such as magnetic strip cards or items that generate strong electronic or magnetic fields, such as a microwave.

Do NOT store the device in an overheated environment.

Do NOT use the device when it is overheated.

Disconnect all the cable connections when the device is not in use.

Place the device in places with good signal strength.

Make sure the adapter you use with the device meets the approved PROs and specifications.

Disposal and Recycling

Do not dispose of the router in a household garbage bin.

Products with this label must be taken to specific collection points at the end of their life.

You can learn more about how to recycle your mobile device by visiting the CTIA website at

www.ctia.org/news/how-to-recycle-your-mobile-device

Maintenance & Care

Avoid extreme temperatures or direct sunlight.

Clean handset with soft, dry cloth. Do NOT use alcohol solvent (color may fade)

The warranty does not cover malfunctions caused by misuse.

Stop all the applications and shut down the device before cleaning it.

Keep the device and its accessories always dry.

If anomaly occurs, contact your providers support at once.

When storing the device, do NOT store it in a container with dampness or under extended heat.

Avoid always dropping the device or strong physical impact.

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Changes

The functions of the product and associated peripherals or accessories are described in this document are based on the current hardware, software and/or local network conditions at the time of writing and thus may vary due to conditions set by local network service providers or carriers. Therefore, all information described here is subject to change without prior notice.

Replacement Parts List.

Part Image	Description
	Removable Belt Clip

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	Removable Battery
	USB A to USB C Power Cable for FUSION X Radios
	USB A Power Block for FUSION X Radios
	Replacement Headpiece
	USB Docking Station for Radios

If you need a part that is not listed, please contact us.

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Network option.



1. Choose the menu button on the front of your radio.
2. Then choose the network option on your screen (See example above)
3. Then with the arrows highlight the network option you want:

IMEI or NETWORK#1: XXXXXXXXXXXXX – This is normally your Private Network.

PUBLIC or NETWORK#2: XXXXXXXXXXXXX – This is normally your Public Access Network.

Additional networks options may be available depending on your radio model.

4. Then hit the green button to confirm your selection
5. A checkmark will appear on the right side of your selection, and your radio will go to the network
6. Press the RED exit button to return to the main screen.