Telit RS Car Phone Installation Guide

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1 Carphone kit

In box Parts	Description
Car phone unit	
Speaker	
Microphone	
Power supply and fuse Cables	
Cradle with screws	

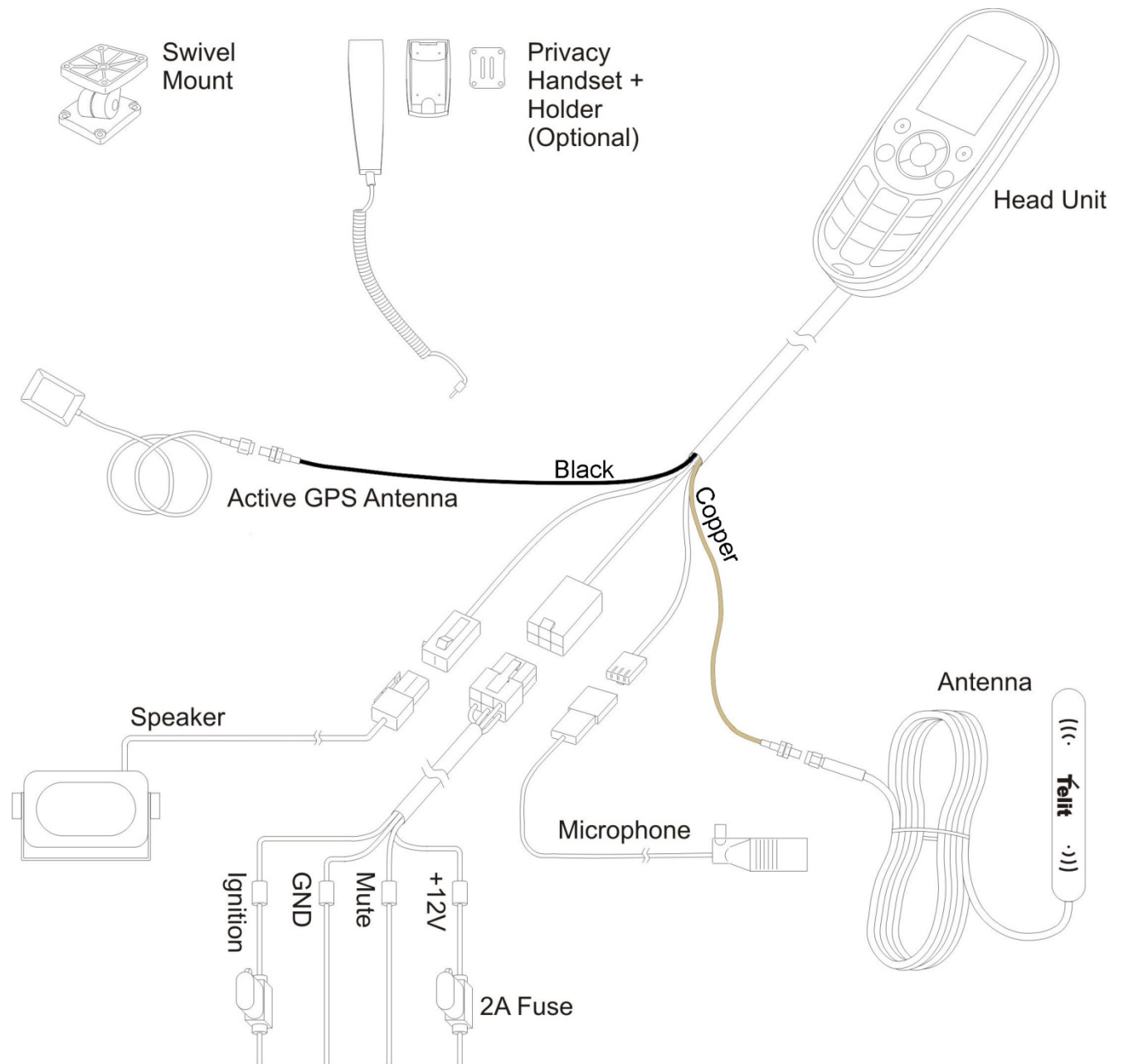| Optional Parts	Description
RF antenna	This High Efficiency Omni directional Antenna is designed for inside glass mount installations operating in the 800MHz cellular, 900 MHz trucking, 1800 MHz DCS, 1900 MHz PCS and 2100 MHz UMTS bands using included 3M /5M adhesive and supplied with 3M /5M cable and SMA male connector.
GPS antenna	GPS active antenna
External Auxiliary (Optional)	Auxiliary is not supplied part of the car kit. It's an optional accessories and can be provided separately.

2 Installation Diagram

Swivel Mount

Privacy Handset + Holder (Optional)

Head Unit

Black

Copper

Active GPS Antenna

Antenna

Speaker

Microphone

Ignition

GND

Mute

+12V

2A Fuse

Telit

3 Carphone layout

External
auxiliary
jack

Volume Keys
Adjust speaker,
earpiece and
ringer volume

2.2" Display
65k Color

Telit

12:00

SIM

Menu   Find

Left Soft Key
OK

5 way Navigation
Keys and GPS

Right Soft
Key

Send Key for making
and accepting calls

End Call
Key

Voice mail shortcut

Keypad

Power On/Off

4 Preplanned Accessory Positioning

Positioning of all accessories must be planned in advance before installation begins.

- Ensure that no wire braids go through locations where Phone accessories are to be installed.

- Ensure that any parts of the handsfree Phone will not interfere with the vehicle or its accessories' operation.

4.1 Plan Phone and Cradle Positions

Note!	The best way to determine the Phone's position to the customer's full satisfaction is to locate it when the customer is beside you and obtain his/her approval.

- Please ensure the Phone's location does not interfere with the vehicle or its accessories operation: it should not interfere with opening the glove compartment or ashtray, should not prevent access to the lighter, moving the gear stick, operating the hand break etc.

Warning!	Do not install the Phone in front of the vehicle's air bag. This restriction must be adhered to, as in the case of an emergency the air bag blows up and can fail to work properly.

- Ensure the surface on which this Phone is installed is sufficiently strong to carry the weight and pressure which would be exerted on it.

- When selecting the Phone's location, please ensure the control cable connected to it does not interfere with the vehicle or its accessories' operation.

- Ensure it is safe and convenient to operate the Phone and read the display **from the driver's seat.**

- Ensure the Phone would be protected from direct sunlight and humidity (air conditioner openings).

- Ensure the Phone would be protected from mechanical damage by the car's accessories.

4.2 Plan the Microphone's Position

- Install the handsfree Phone's microphone 30-40 cm away from where the driver speaks when he/she is in their normal driving position.
- It is recommended to install the microphone inbetween car roof and windscreen glass and away from external sources of noise.
- Install the microphone in a different direction than the speaker so as to avoid echo.

4.3 Plan the Speaker's Position

Note!	The speaker and microphone (installed inbetween car roof and windscreen glass above the driver) must face different directions.

Note!	Do not hide the speaker inside the dash board. If you cover it, sound quality will be lowered.

- Locate the speaker at the right side of the main console, at the front of the console, in a location where it would not bother the driver or passengers but would sound best.

5 Installing the Cradle and Phone

Carphone unit

Cradle

Adjustable bracket

5.1 Where to Position (Reminder)

Note!	The best way to determine the Phone's position to the customer's full satisfaction is to locate it when the customer is beside you and obtain his/her agreement.

- Please ensure the Phone's location does not interfere with the vehicle or its accessories operation: it should not interfere with opening the glove compartment or ashtray, should not prevent access to the lighter, moving the gear stick, operating the hand break etc.

Warning!	**Do not install the Phone in front of the vehicle's air bag. This restriction must be adhered to, as in the case of an emergency the air bag blows up and can fail to work properly.**

- Ensure the surface on which this Phone is installed is sufficiently strong to carry the weight and pressure which would be exerted on it.

- When selecting the Phone's location, please ensure the control cable connected to it does not interfere with the vehicle or its accessories' operation.

- Ensure it is safe and convenient to operate the Phone and read the display **from the driver's seat.**

- Ensure the Phone would be protected from direct sunlight and humidity (air conditioner openings).

- Ensure the Phone would be protected from mechanical damage by the car's accessories.

5.2 Installing the Cradle and Phone

1. Disassemble the cradle into its two parts.

2. Install one of the cradle parts in the determined location in the car with 4 tin screws.

🖈 **Note!**	If you are not able to locate the cradle properly, please use a adjustable bracket from the station inventory.

3. Install the second cradle part on the handsfree Phone, using the 4 philips screws provided with this kit.

🖈 **Note!**	Only use the original screws provided with this kit.

4. Connect the two cradle parts.

5. Direct the control cable coming out of the Phone behind the car panel.

5.3   Installing the Microphone

The microphone is provided with a clip which makes it possible to install it inbetween the car roof and windscreen glass.

5.3.1   Where to Locate the Microphone (Reminder)

- Install the handsfree Phone's microphone 30-40 cm away from where the driver speaks when he/she is in their normal driving position.

- It is recommended to install the microphone inbetween car roof and windscreen glass and away from external sources of noise.

- Install the microphone in a different direction than the speaker so as to avoid echo, and ensure there is a distance of at least 1.5 meters between them.

5.3.2 Installing the Microphone

1. Using the clip, install the microphone inbetween the car roof and windscreen glass.

2. Direct the microphone cable along the roof, behind it, so as not to be seen.

3. Continue directing the microphone cable along the left beam on the driver side.

4. Direct the cable under the dash board to the connection point of the cable with the control cable connected to the Phone.

Note!	Ensure the microphone cable and antenna cable are kept away from each other.
	Ensure the microphone cable is not in contact and does not interfere with the car pedals and steering wheel stick.

5. Connect the microphone cable plug to the correct port on the control cable.
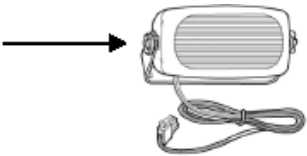
5.4.1   Where to Locate the Speaker (Reminder)

🖈 **Note!**	The speaker and microphone (installed inbetween the car roof and windscreen glass above the driver) must face **different directions.** If the speaker and microphone face each other, this will cause echo.

🖈 **Note!**	Do not hide the speaker inside the dash board. If you cover it, sound quality will be lowered.

- Locate the speaker at the right side of the main console, at the front of the console, in a location where it would not bother the driver or passengers but would sound best.

5.4.2   Installing the Speaker

1. Install the speaker at the right side of the main console, at the front of the console.

2. Disassemble the screws connecting the speaker to the hanger.

3. Install the hanger using the 2 tin screws.

4. Direct the speaker cable behind the mat located at the bottom of the car.

5. Ensure the cable does not interfere with the vehicle or its accessories' operation.

6. Ensure the speaker cable is not exposed to damage by the passengers.

5.5 Installing the Electrical Connections

The electrical cable is provided separately from the control cable. Before installation begins, connect the four leads (which include the 2A fuses) using a red or blue crimp sleeve as appropriate.

(i) **Warning!**	Please note sharp edges or moving parts which may damage the wires. The value for the fuses provided with the kits must not be changed. The kit is appropriate only for a 12V vehicle. In case of converting any other kit model into this kit, please change the power cable.

The electrical cables should be directed as follows:

- So as not to disturb the driver or passengers.

- So as not to pass near the car's sharp or moving parts.

📌 **Note!**	The external voltage connection is located under the dash board or close to the fuse box (depending on the car model). In new vehicles a cellular phone connection can be found near the fuse box. See the car's user's manual under Info. Only use the kit's original fuses (250V / 2A).
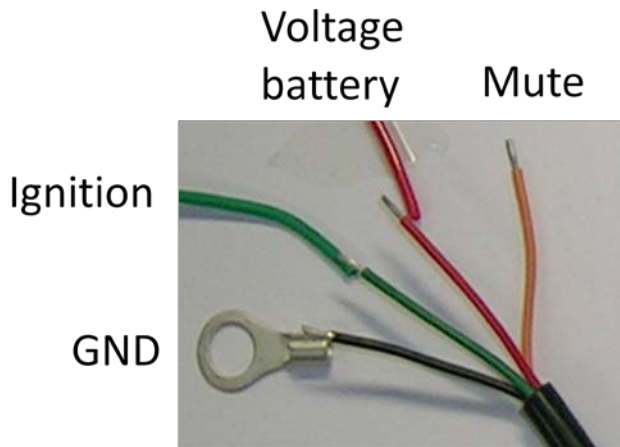
The following chart covers the manner by which the voltage cable should be connected to the car's electrical system.

Wire Color	Function	Must be connected to	Ensure
Red Includes fuse case	To provide the handsfree Phone with fixed voltage	12V fixed voltage An additional fuse case is provided which must be connected to a fixed voltage source (+)	Ensure a 250V / 2A fuse is used
Black	To provide a fixed minus (-)	Car body (minus)	Ensure the connection point is on the car body only. Use a cable shoe, tin screw and springy disc.
Green Includes fuse case	To turn on the cellular phone after switching the ignition on and turn it off after car ignition is switched off.	12V-24V Ignition voltage	Determine the correct point with a voltmeter Ensure a 250V / 2A fuse is used.

5.7 Installing RF Antenna

5.7.1 Where to Locate the Antenna

- The preferred location for the antenna is on the right side of the windshield.
- If other communication system is installed in the car, please locate the antenna as far as possible from the other phone antenna. Recommended distance is 30cm.

🖈 **Note!**	Some car vendors (such as Renault) feature a radiation filter on the windshield. Therefore it is necessary to install the antenna on a side or back window.

🖈 **Note!**	In vehicles with air bags on the beam where the antenna cable passes, the antenna cable should be directed behind or beside the airbag.

5.7.2 Installing the Antenna

1. Thoroughly clean the location intended for installation using a cloth and detergent. Allow the spot to dry before you continue.
2. Carefully remove the protective film from the 3M adhesive
3. Locate the antenna on the cleaned location.
4. Carefully press the antenna toward the window. Ensure all corners of the antenna are attached to the window.Chose the mounting position on the vehicle windshield according to bellow drawing.
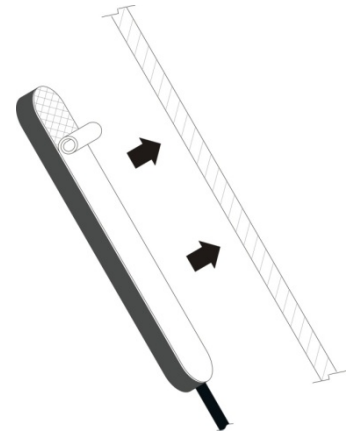
🖈 **Note!**	Please keep min. 20 mm distance from metal surface.

Mounting instructions
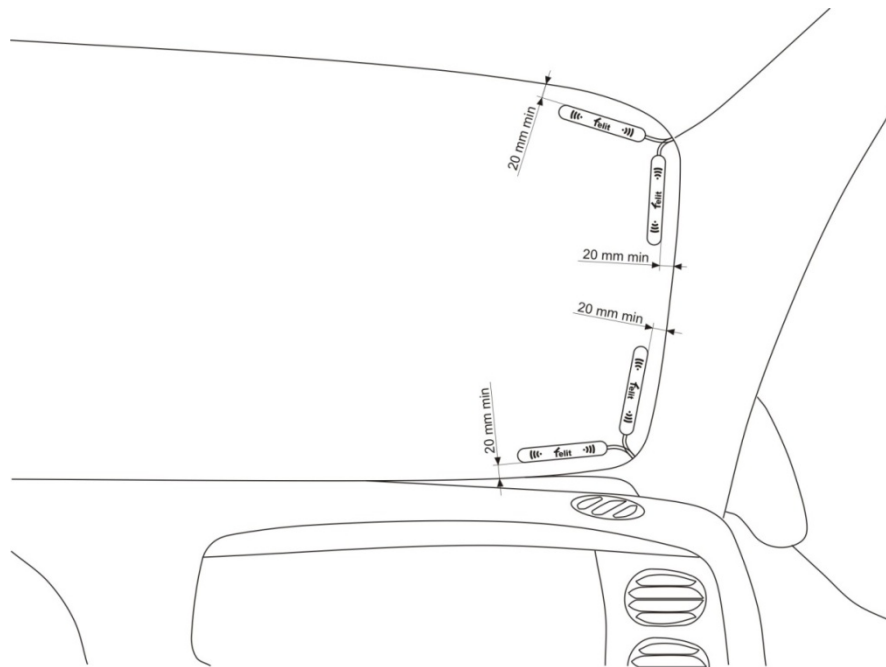
5.7.4   Installing the Coaxial Cable

1. Direct the antenna's coaxial cable along the car beam. Ensure the antenna cable does not get damaged.
2. When completing the cables installation and reaching close to the device coaxial cables SMA female connector attach both connectors together.
3. Roll the remaining cable.
4. Examine the antenna and cables properly installed.

5.8   Installing GPS Antenna

5.8.1   Where to Locate the Antenna

- The preferred location for the antenna is on the bottom right side of the dashboard

Note!	In vehicles with air bags on the beam where the antenna cable passes, the antenna cable should be directed behind or beside the airbag.

5.8.2   Installing the Antenna

1. Thoroughly clean the location intended for installation using a cloth and detergent. Allow the spot to dry before you continue.
2. Carefully remove the protective film from the 3M adhesive
3. Locate the antenna on the cleaned location.
4. Carefully press the antenna toward the dashborad. Ensure all corners of the antenna are attached to the dashboard.

5.8.3   Possible positions

Mounting instructions

5.8.4 Installing the Coaxial Cable

5. Direct the antenna's coaxial cable along the car beam. Ensure the antenna cable does not get damaged.
6. When completing the cables installation and reaching close to the device coaxial cables SMA female connector attach both connectors together.
7. Roll the remaining cable.
8. Examine the antenna and cables properly installed.

See SIM card installation position:

 Note!	Insert the SIM card when the phone is off.

6 Trouble Shooting

Symptom	What to Check	What to Do
No reception	**Check whether connector is correctly connected to the cable** – use an efficiency meter	Replace connector
	Check if internal and external antenna base is correctly attached	Attach antenna base
	Check proper working order of antenna cable	Replace antenna cable
Other party cannot be properly heard	**Check speaker's proper working order**	Replace speaker
	A Phone problem may exist	Replace Phone
	Check speaker location	Change location
User is not heard by the other party	**Check microphone and contacts**	Tighten microphone connector to the Phone
	Check routing of microphone cable	Change routing of microphone cable
	Check microphone's proper working order	Replace microphone
	A Phone problem may exist	Replace Phone
Noise is heard	**Ask whether noise always occurs in specific geographical areas**	Explain that reception trouble sometimes occurs in transition between coverage areas
	Ask whether noise occurs when window is open	Explain that the Phone is an amplifying system that receives all environmental noise, and therefore it is preferable to speak with a closed window
	Check whether microphone and antenna are installed on the same side	If they are, install microphone as per the instructions
	Check whether eye contact exists between speaker and microphone	If it does, change location accordingly
	Check for improper voltage connection – check whether voltages are connected as per instructions	Change voltage source in accordance with instructions
Phone switches on and off by itself	**Check minus (-) connection**	Black wire: connect minus to car body
	Check voltage contacts	Tighten loose contacts
Phone switches on and off by itself	**Check fuse. Check connection to voltage source (green cable)**	Replace fuse. Tighten connection to voltage source. Ensure a 250V / 2A fuse is used
Phone does not switch off after switching off car	**Check connection to power source (green cable)**	Tighten connection to power source
Phone does not switch off after switching off car	**Check connection to power source. Check fuse (red cable)**	Replace fuse. Tighten connection to power source

Mounting instructions

7 Appendix

Finding IMEI code

1. Type code *#06#

2. Find locking code *5625#

Mounting instructions

Telit RS
User Guide

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Contents

1.   General Info

1.1.   Safety Information

IMPORTANT: Read the following precautions carefully to avoid dangerous situations and to ensure ideal performance of your Telit RS car phone.

	Pacemakers The Health Industry Manufacturers Association recommends that a minimum separation of 6 inches (15 centimeters) be maintained between a wireless phone's antenna and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers: ◆ Should ALWAYS keep the phone more than 6 inches (15 centimeters) from their pacemaker when the phone is turned ON. ◆ Should turn the phone OFF immediately if you have any reason to suspect that interference is taking place. **Other Medical Devices** If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.
	Blasting Areas To avoid interfering with blasting operations, turn your Telit RS car phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.
	Potentially Explosive Atmospheres Turn your phone OFF, and obey all signs and instructions. Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often but not always clearly marked. They include: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present (for example, if a gas/propane leak occurs in a car or home); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you normally would be advised to turn off your vehicle engine.
	Electronic Devices Most modern electronic equipment is shielded from RF signals. However, certain equipment may not be shielded against the RF signals from your wireless phone.
	Posted Facilities Turn your phone OFF in any facility where posted notices so require.
	Service and Repairs If you have questions or need assistance, you may refer to the Warranty supplied with the purchase of this product.
	For Vehicles Equipped with an Air Bag An air bag inflates with great force. Do NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If

	in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.
	Vehicles RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.
	Use While Driving Check the laws and regulations on the use of phones in the area where you drive. Always obey them. When using your phone while driving, please: ◆ Give full attention to driving and to the road. ◆ Use hands-free operation. ◆ Pull off the road and park before making or answering a call if driving conditions so require.

1.2.   Exposure to Radio Frequency Signal

Our wireless mobile telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.
Your Telit RS car phone complies with the following RF energy exposure standards and guidelines:

◆ United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J

◆ American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992

◆ Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition

◆ International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

◆ Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999.

Note	The design of your Telit RS car phone complies with these standards when used as described in this guide.

1.3.   Antenna Installation Guidelines

To meet the FCC's RF Exposure Guidelines and satisfy the categorical exclusion requirements for mobile transmitters, the antenna must be installed so there is at least 30 cm of separation between the antenna and both the occupants of the vehicle and bystanders outside of the vehicle. Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate local agency regulations

1.4.   Antenna Configuration

Do not operate your mobile telephone when a person is within 12 inches (30 centimeters) of the vehicle antenna. A person or object within 12 inches (30 centimeters) of the antenna could impair call quality and may cause the phone to operate at a higher power level than necessary and expose that person to RF energy in excess of that established by the FCC RF Exposure Guidelines.

1.5.   FCC Notice to Users

The following statement applies to all products that have received FCC approval. Applicable products bear the FCC logo, and/or and FCC ID in the format FCC-ID:xxxxxx on the product label. Telit has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment. See 47 CFR Sec. 15.21.
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. See 47 CFR Sec. 15.19(3).
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to 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.

1.5.1.   Modification statement

Telit Communications S.p.A. has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

1.5.2.   Interference statement

This device complies with Part 15 of the FCC Rules and Industry Canada licence-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.

1.5.3.   Wireless notice:

This product emits radio frequency energy, but the radiated output power of this device is far below the FCC and IC frequency exposure limits. This equipment complies with FCC and IC RF radiation exposure limits forth for an uncontrolled environment. Nevertheless, the device should be used in such a manner that the potential for human contact with the antenna during normal operation is minimized.

RS 850/1900

This product integrates the HE863-NAR 2G/3G module (FCC ID: RI7HE863NA, IC: 5131A-HE863NA). The HE863-NAR module is granted with a modular approval for mobile applications. Integration has been done meeting the following conditions:

1. At least 20cm separation distance between the antenna and any person body is maintained at all times.
2. To comply with FCC/IC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile only exposure condition does not exceed 4.2 dBi.
3. The HE863-NAR antenna is not co-located with any other antennas.

<u>RS 900/2100</u>

This product integrates the HE863-EUR 2G/3G module (FCC ID: RI7HE863EU). The HE863-EUR module is granted with a modular approval for mobile applications. Integration has been done meeting the following conditions:

4. At least 20cm separation distance between the antenna and any person body is maintained at all times.
5. To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile only exposure condition does not exceed 4.2 dBi.
6. The HE863-NAR antenna is not co-located with any other antennas.

1.6.   Industry Canada Notice to Users

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. See RSS-GEN 7.1.5.

1.7. European Union Directives Conformance Statement

1999/5/EC Directive

The RS 900/2100 and RS 850/2100 car kit cellular/gps/bluetooth have been evaluated against the essential requirements of the 1999/5/EC Directive.

Bulgarian	С настоящето TELIT COMMUNICATIONS S.P.A. декларира, че car kit cellular/gps/bluetooth отговаря на съществените изисквания и другите приложими изисквания на Директива 1999/5/EC.
Czech	TELIT COMMUNICATIONS S.P.A. tímto prohlašuje, že tento car kit cellular/gps/bluetooth je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Danish	Undertegnede TELIT COMMUNICATIONS S.P.A. erklærer herved, at følgende udstyr car kit cellular/gps/bluetooth overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Dutch	Hierbij verklaart TELIT COMMUNICATIONS S.P.A. dat het toestel car kit cellular/gps/bluetooth in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
English	Hereby, TELIT COMMUNICATIONS S.P.A., declares that this car kit cellular/gps/bluetooth is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Estonian	Käesolevaga kinnitab TELIT COMMUNICATIONS S.P.A. seadme car kit cellular/gps/bluetooth vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
German	Hiermit erklärt TELIT COMMUNICATIONS S.P.A., dass sich das Gerät car kit cellular/gps/bluetooth in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ TELIT COMMUNICATIONS S.P.A. ΔΗΛΩΝΕΙ ΟΤΙ car kit cellular/gps/bluetooth ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Hungarian	Alulírott, TELIT COMMUNICATIONS S.P.A. nyilatkozom, hogy a car kit cellular/gps/bluetooth megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.
Finnish	TELIT COMMUNICATIONS S.P.A. vakuuttaa täten että car kit cellular/gps/bluetooth tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
French	Par la présente TELIT COMMUNICATIONS S.P.A. déclare que l'appareil car kit cellular/gps/bluetooth est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Icelandic	Hér með lýsir TELIT COMMUNICATIONS S.P.A. yfir því að car kit cellular/gps/bluetooth er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC
Italian	Con la presente TELIT COMMUNICATIONS S.P.A. dichiara che questo car kit cellular/gps/bluetooth è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latvian	Ar šo TELIT COMMUNICATIONS S.P.A. deklarē, ka car kit cellular/gps/bluetooth atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lithuanian	Šiuo TELIT COMMUNICATIONS S.P.A. deklaruoja, kad šis car kit cellular/gps/bluetooth atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Maltese	Hawnhekk, TELIT COMMUNICATIONS S.P.A., jiddikjara li dan car kit cellular/gps/bluetooth jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Norwegian	TELIT COMMUNICATIONS S.P.A. erklærer herved at utstyret car kit cellular/gps/bluetooth er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

Polish	Niniejszym TELIT COMMUNICATIONS S.P.A. oświadcza, że car kit cellular/gps/bluetooth jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC
Portuguese	TELIT COMMUNICATIONS S.P.A. declara que este car kit cellular/gps/bluetooth está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovak	TELIT COMMUNICATIONS S.P.A. týmto vyhlasuje, že car kit cellular/gps/bluetooth spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Slovenian	TELIT COMMUNICATIONS S.P.A. izjavlja, da je ta car kit cellular/gps/bluetooth v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Spanish	Por medio de la presente TELIT COMMUNICATIONS S.P.A. declara que el car kit cellular/gps/bluetooth cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Swedish	Härmed intygar TELIT COMMUNICATIONS S.P.A. att denna car kit cellular/gps/bluetooth står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

In order to satisfy the essential requirements of 1999/5/EC Directive, ZE61-2.4 module is compliant with the following standards:

RF spectrum use (R&TTE art. 3.2)	EN 300 328 V1.7.1
	EN 300 440-2 V1.4.1
	EN 301 511 V9.0.2
	EN 301 908-1 V4.2.1
	EN 301 908-1 V4.2.1
EMC (R&TTE art. 3.1b)	EN 301 489-1 V1.8.1
	EN 301 489-3 V1.4.1
	EN 301 489-7 V1.3.1
	EN 301 489-17 V2.1.1
	EN 301 489-24 V1.5.1
Health & Safety (R&TTE art. 3.1a)	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011
	EN 62311:2008

The conformity assessment procedure referred to in Article 10 and detailed in Annex IV of Directive 1999/5/EC has been followed with the involvement of the following Notified Body Notified Body:

AT4 wireless, S.A.
Parque Tecnologico de Andalucía
C/ Severo Ochoa 2
29590 Campanillas – Málaga
SPAIN
Notified Body No: 1909

The Technical Construction File (TCF) relevant to the product described above is held at:

Telit Communications S.p.A
Via Stazione di Prosecco, 5/b
34010 Sgonico (TRIESTE)
Italy

This equipment can be operated in the EU without restrictions.

Thus, the following marking is included in the product:

$$CE\ 1909$$

The full declaration of conformity can be found on the following address:

http://www.telit.com/XXXXX

The use of an antenna different to the one supplied and evaluated may affect the compliance; if the antenna is changed the product with the new antenna must be assessed to demonstrate compliance with the essential requirements of the 1999/5/EC Directive. It should be noted that the assessment does not necessarily lead to testing.

1.8.   Environmental and Recycling

	This symbol on a Telit product means the product should not be disposed of with household waste. This requirement applies to the European Union and other locations where separate collection systems are available. Do not dispose of these products as unsorted municipal waste. By returning the products to collection you help prevent uncontrolled waste disposal and promote the reuse of material resources.
For more information about returning your obsolete product, please contact your local waste authorities or local distributor.	

2.　　Your Telit RS Car Phone

> **Note:**
> **Left Soft key and Right Soft key look the same on the phone –** ⬤
> **In case of reference to the Right Soft key, it will be noted as follows –** ⬤**-L**
> **In case of reference to the Right Soft key, it will be noted as follows –** ⬤**-R**

2.1.　　Dedicated Keys Functionality

Key	Description
📞	Dial key Make or answer a call. In Idle mode, display the Calls Log.
📞	End key In the Call, end a call. In Menu mode, cancel input and return to Idle mode.
(nav)	4-way navigation key In Menu mode, scroll through menu options.
⬤-L	Left Soft Key In Idle mode, enter the main menu. In the call receiving, mute the ringtone.
⬤-R	Right Soft Key In Idle mode, enter the phonebook menu. In the call receiving, enter the call options menu. In the Main Menu, goes back to the previous menu. In the Entering mode, delete a character or a number.
#🔒	Pound Key Long pressing on the pound key will lock the phone keypad. In order to unlock press on ⬤-L and enter a code. Default is "0000"
*	Hush Key In Entering Mode, add a space.
(volume)	Volume key In ldle mode, adjust the ringtone tone volume. In the call, adjust the speaker volume.
⏻	Power key Turn the phone on and off (press and hold).
(GPS)	In Menu mode, behave as OK.

2.2.   Display

The following icons may appear on the top line of the screen to indicate your phone's status. Depending on your country or service provider, the icons shown on the display may vary.

Icon	Description
	Signal strength
	Voice call in progress Out of your service area
	Normal profile activated Silent profile activated
	Keypad lock activated
	Voice mail received
	Internet connected
	3G network

3.   Getting Started

3.1.   Install your SIM card

With your phone powered off, insert the SIM card into the SIM card socket at the right side of the phone.

3.2.   Power Control

When installed properly, the phone powers on and off automatically using the car's ignition switch. For manual operation press and hold the power key ( ) until the display panel lights on/off. Enter your PIN and press (if necessary).

3.3.   Volume Control

When call is inactive, press the volume keys located on the side of the phone to set the Ring Tone Volume.

3.3.1.   Call Volume

During a call, press either of the volume keys on the side of the phone to adjust the call volume.

3.3.2.   Muting Microphone

During a call, press **-R** to mute the microphone. To Unmute the microphone, press this key again.

3.3.3.   Key Volume

Press the **-L** → Settings → Sounds → Volume → Key Tone, and adjust the volume with the up or down keys.

3.4.   Menu Access and Navigation

Use the 4-way navigation key to navigate the menu system and change feature settings. You can navigate graphic menus in any direction – right, left, down and up. The primary movements within list menus are down and up. To change settings in list menus, navigate the datebook or edit text, you can also move left and right.
To access your phone's menus:

1. In Idle mode, press **-L** to access Menu mode.

2. Use the key to scroll to a menu or option.

3. Press **-L** or key to confirm the highlighted option.
4. Press **-R** to move up one level; Press to return to Idle mode.

Note	When you access a menu requiring the PIN2, you must enter the PIN2 supplied with the SIM or USIM card. For details, contact your service provider.

3.5.   Make or Answer a Call

3.5.1.   Make a call

1. In Idle mode, enter an area code and a phone number.
2. Press 📞 to dial the number.
3. To end the call, press 📵.

3.5.2.   Answer a call

1. To accept incoming call press 📞.
2. To end the call, press 📵.

3.5.3.   Call a recently dialed number

1. In Idle mode, press 📞.
2. Scroll up or down to a number or name.
3. Press Options key to view call details or 📞 to dial the number.

3.6.   Advanced Call Features

3.6.1.   Make a conference call

1. During a call, call the second participant. The first call is put on Hold.
2. Press <Options> and select Conference.
3. Repeat step 1 and 2 to add more participants.
4. To end the call, press 📵.

3.6.2.   Speed Dial

Your Telit RS car phone support up to 99 speed dial entries. Each entry can contain one phone number where first entry is reserved for Voice Mail number.
To dial speed dial number

1. Enter speed dial number, then press 📞.
2. For 2-9 entries, press and hold the number.
3. For 10-99 entries, dial the entry and press 📞.
4. To end the call, press 📵.
To add a speed dial entry

1. Press ●-L → 1 → 5JKL
2. Choose your speed dial entry from 2-99
3. Use 🔘 key to choose the number for assignment
4. Press ●-L, or 🔘 key to confirm your choice.

To delete a speed dial entry

1. Press ⬤-L → [1⌧] → [5 JKL]

2. Choose your speed dial entry from 2-99

3. To delete press ⬤-L → [3 DEF]

Note Deleting speed dial will not effect phonebook contact. while deleting a contact from the phonebook list will erase an assigned speed dial.

3.6.3. Fixed Dialing

You can restrict your outgoing calls to selected phone numbers, if this function is supported by your SIM card. To save and edit the numbers, you need the SIM PIN2 code. When you turn on fixed dialing, you can orginate calls only to the numbers stored in the fixed dial list.
Turn fixed dialing on or off

1. Press ⬤-L → [3 DEF] → [3 DEF] → [2 ABC] → [4 GHI]

2. Enter your PIN2

3. Scroll with [⬤] between Enable/Disable.

4. Press ⬤-L to confirm.
Once FDN is enabled you will be able to use and view only FDN list of numbers.
Use the fixed dial list

1. Press ⬤-L → [3 DEF] → [3 DEF] → [2 ABC] → [4 GHI] → [3 DEF]

2. Enter your FDN contacts

3. Enter your PIN2

4. Press ⬤-L to confirm.

Note Updating or editing the fixed dial list FDN status changing or update requires SIM PIN2, you must enter PIN2 supplied with the SIM or USIM card. For details, contact your service provider.

3.6.4. Hold or Mute a Call

While in call press 📞 to put all active calls on hold.
While in call press ⬤-R to mute all active calls.

3.6.5. Call Waiting

During a call, an alert will be heard indicating for second call.

Press 📞 to answer the new call.

- To switch between calls, press 📞.
- To connect the 2 calls, use conference option.

3.6.6.   Emergency Calls

Your service provider programs one or more emergency phone numbers, such as 911 or 112, so that you can call under any circumstances, even when your phone is locked or the SIM card is not inserted.

1. Press the keypad keys to dial the emergency number.

2. Press 📞 to call the emergency number.

Note | Emergency numbers vary by country. Your phone's pre-programmed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.

3.6.7.   International Calls

If your phone service includes international call dialing, press and hold "0" to insert your local international access code (indicated by +). Then, press the keypad keys to dial the country code and phone number.

Phonebook
Telit RS phonebook support up to 1,000 contacts (up to 3 numbers per each contact). When you select a name from your phone book, the first number would be the contact mobile phone number. The phonebook contact list could be stored in your phone memory, or to your SIM or both. You can also copy entries from a SIM card to your car phone and from the car phone to the SIM card.

3.6.8.   Storing a New Number

1. Enter the phone number and press ⊙-L → [icon] . You can choose to save it as new entry or add it to existing contact.

2. Scroll to select the type: Mobile, Home, Work.

3. Enter your contact name. You can switch the language or change to numeric under ⊙-L. Additional number can be added (Home, Work)

4. Upon completion, press [icon] under ⊙-L.

5. Depends on your memory selection the contact will be stored either in phone or SIM card or both.

3.6.9. Searching for names and numbers

1. You can access the list of names and phone numbers quickly from the Idle mode by pressing -**R**.
2. Press the first letter of the desired name.
3. You can now view all the names stored in your contacts list which start with the selected letter. They are listed in alphabetical order.
4. Scroll with   to the desired name in the list.
5. To make a call to this person, press .
6. To end the call, press .
7. To return to Idle mode, press .

3.6.10. Phonebook Sync

Updates your phonebook with your Google's contacts list. You can update up to 1,000 entries.

While updating, the phone won't be available for use. -**L** →   →

3.6.11. Memory Status

You can view your memory status by pressing -**L** →   →

3.6.12. Phonebook storage

You can store either to your SIM, phone memory or both, by pressing -**L** →   →

3.6.13. Copy from SIM to phone

You can copy your contacts from SIM to phone by pressing

-L → →

3.7. Call Log

Telit RS displays the phone numbers of missed, received, and dialed calls and the time and date of your calls.
The phone displays missed and received calls only if the network supports these functions and if the phone is switched on and within the network's service area.
In these lists you can view up to 30 of the last calls made to your phone or received or up to 30 numbers you have last dialed. They are provided for your reference. The recently dialed item is shown at the top of the list.

- Dialed Calls are using icon
- Received Calls are using icon
- Missed Calls are using icon

3.7.1. Missed calls

To view a list of up to 30 of the latest missed calls, with the display in idle mode:

1. Press -L → →

2. Scroll with through the list.

3. To make a call to entry, press .

4. To save the entry to car phone memory, press -L → and follow the instruction on page 16.

5. To return to Idle mode, press .

3.7.2. Received calls

To view a list of up to 30 registered numbers of your latest received calls, while the display is in Idle mode:

1. Press -L → →

2. Scroll with through the list.

3. To make a call to entry number, press .

4. To save the entry number to car phone memory, press

-L → and follow the instruction on page 16.

5. To return to Idle mode, press .

3.7.3.   Dialed numbers

You can use a shortcut to view the list of up to 30 from the last dialed numbers while the display in Idle mode:

1. Press -L →   →

2. Scroll with   through the list.

3. To make a call to entry number, press .

4. To save the entry number to car phone memory, press

    -L →   and follow the instruction on page 16.

5. To return to Idle mode, press .

3.7.4.   Call Duration Timers

The call duration timer showing the elapsed time. This time includes busy signals and ringing. The period of time may not be equal to the amount of time which being use by your service provider for billing. For billing information, contact your service provider.

3.7.4.1.   **Dialed Calls**

1. Press -L →   →   →

2. For Timers' reset, press -L.

3.7.4.2.   **Last Dialed Call**

1. Press -L →   →   →

2. For reset, press -L.

3.7.4.3.   **All Calls**

1. Press -L →   →   →

2. For reset, press -L.

3.8.　　Settings

Sounds	
Sound for Ringtone	Select a sound from your sounds list to use as a ringtone: Press 　-L → 　 → 　 → 　 and select the desired sound. Scroll with 　 through the list. Press 　-L to select the chosen sound.
Volume	Press 　-L → 　 → 　 → 　 Choose volume for Ringer / Voice / Key Tone. Press 　-L to confirm.
Sound for Keypad	Press 　-L → 　 → 　 → 　 and select Off or Beep. Press left soft key 　-L to confirm.
Alerts	Press 　-L → 　 → 　 → 　 and select Off/On to Connect Call or to Disconnect Call.
Display	
Banner Text	To change the displayed text banner in Idle mode, to your preferences. Press 　-L → 　 → 　 → 　 Press 　 and scroll with 　 between ON/OFF. To choose the color of the banner press 　 Scroll with 　 through the list. To edit the banner text, press 　. Edit your banner text. Press left soft key 　-L to confirm.
Display Contrast	To adjust the contrast of your car phone's display: Press 　-L → 　 → 　 → 　 Scroll with 　 through the list. Press 　-L to confirm.
Keypad light intensity	To adjust the keypad light timeout: Press 　-L → 　 → 　 → 　 Scroll with 　 through the list. Press 　-L to confirm.

Security	
Codes & Passwords	Your phone's 4-digit unlock code is originally set to 0000. If your service provider did not change these codes, you should change them: Press ●-L → 3ᴅᴇꜰ → 3ᴅᴇꜰ → 3ᴅᴇꜰ Enter the old code. Press ●-L to confirm. Enter a new code. Press ●-L to confirm. Repeat the code for confirmation. Press ●-L to confirm.
Phone Lock	To lock your phone in different states: Press ●-L → 3ᴅᴇꜰ → 3ᴅᴇꜰ → 1⊠ Scroll with ● between "Lock now", "Lock on Power On", "Off" Press ●-L to confirm. During Incoming call when your car phone is locked, there is no need to enter the unlock code to answer the call.
Delete all	To delete all the data in your phonebook or call log: Press ●-L → 3ᴅᴇꜰ → 3ᴅᴇꜰ → 5ᴊᴋʟ Scroll with ● between "Phone Book", "Call History" Press ●-L to choose Press ●-L to confirm
PIN Code	To enable or disable PIN code: Press ●-L → 3ᴅᴇꜰ → 3ᴅᴇꜰ → 8ᴛᴜᴠ . Scroll with ● between Enable or Disable Press ●-L to confirm.

Note	You can also change your SIM PIN or PIN2 codes. If you forget your security code, SIM PIN code, or PIN2 code, contact your service provider.

General	
Phonebook Sync	In order to set synchronize with Google contacts list: Press ●-L → 3ᴅᴇꜰ → 4ɢʜɪ → 4ɢʜɪ Enter APN, Google User and Google Password. Press ●-L to confirm.
Set Time	In order to set time: Press ●-L → 3ᴅᴇꜰ → 4ɢʜɪ → 6ᴍɴᴏ Enter digits. Press ●-L to confirm.
Set Date	In order to set time: Press ●-L → 3ᴅᴇꜰ → 4ɢʜɪ → 7ᴘǫʀs Enter digits. Press ●-L to confirm.

4. Specific Absorption Rate Data

The antenna should be installed at least 30 cm away from all vehicle occupants.
The World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of mobile devices. They note that if you want to reduce your exposure then you can do so by limiting the length of calls or using a "hands-free" device to keep the mobile phone away from the head and body.
Additional Information can be found on the websites of the World Health Organization (http://www.who.int/emf).

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5.   Warranty

Without prejudice of legal warranty, The Telit RS is warranted during 1 year from the date of purchase for defects in materials and workmanship, provided that no deterioration to the product has been made, and upon presentation of proof of purchase (date of purchase, location of sale and product serial number/IMEI number) to the retailer.
Warranty does not cover: upgrading of the software, data recovery, deterioration of the external aspect due to normal use of the product, any damage caused by accident, misuse, misapplication, or non-approved products. The authorised distributor for Telit products is not responsible for storage, loss or damage to data during transit or repair. Any product wrongfully declared to be defective will be returned to sender and inspection, process and carriage costs will be invoiced to them. Due to the technical nature of this product, we advise you to seek professional installation.
The authorised distributor for Telit shall not be held responsible for any dysfunction caused by an installation which does not follow the instructions provided or an incorrect installation. If you are experiencing any issues with returning your Telit product please contact an Authorised local distributor.