

Traçabilité, surveillance et métrologie



DS 13479_EN

User Manual



Gateway NOVA CELL

Models 13479 2 / 13480 2 / 14106 2 / 14107 2



JRI Société par actions simplifiée au capital de 4 000 000 €
Pôle logistique / 2 Rue de la Voivre / PA Technoland / BP 21 / 25490 FESCHES LE CHÂTEL / France
SIRET 380 332 858 00030 - Tél : +33 (0)3 81 30 68 04 / Fax : +33 (0)3 81 30 60 99 / sales@jri.fr

Siège Social : 16 Rue Louis Rameau / CS 90050 / 95872 BEZONS Cedex / France / APE 2651B / TVA FR 02 380 332 858

www.jri.fr

원문: JRI Nova CELL transmission module Nova CELL transmission module · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.



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I. INTRODUCTION



The Nova CELL is a communication module designed to transmit real-time data to the MySirius platform. It is compatible with Nano SPY and Nova SPY sensors, enabling temperature monitoring, GPS tracking, and the reception of alarms through multiple channels.

a) Contents

- A recyclable cardboard box
- 1: Nova CELL (with IMEI barcode on the casing)
- 2: GSM/GPRS antenna
- 4: 2 m power cable (3 wires) with fuse holder:
 - +12 or +24 V permanent (red wire)
 - +12 or +24 V switched (blue wire)
 - Ground (black wire)
- 1 generic JRI user manual



b) Symbols



RECYCLING: Do not dispose of in a landfill or household waste container. Comply with applicable regulations for proper disposal.



CE MARKING: This device is certified in accordance with European regulations for electrical safety, flammability, emission of disruptive radiation, and immunity to surrounding electrical disturbances.

FCC ID : W4512525

This device complies with Part 15 of the FCC rules. Its 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.



NOTE 1: The dealer is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such changes could void the user's authority to operate the equipment.

NOTE 2: This equipment has been tested and found to comply with the limits for a Class A 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 their own expense.



ISED ID: CAN ICES-003(A) / NMB-003(A)

The license-exempt transmitter/receiver contained in this device complies with Innovation, Science and Economic Development Canada's (ISED) standards for license-exempt radio apparatus. Operation is subject to the following two conditions:

1. The device must not cause interference;
2. The device must accept any radio interference received, even if the interference may cause undesired operation.

II. USAGE RECOMMENDATIONS

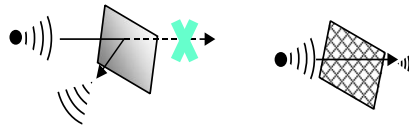


Do not use the device under conditions other than those specified in the technical specifications (Risk of fire or explosion).
For any use other than that mentioned, please contact JRI.

The Nova CELL is a gateway that transmits information from the Nano & Nova SPY devices to the MySirius cloud via 4G networks. To ensure optimal radio transmission, certain recommendations must be followed, as any wireless transmission is subject to interference.

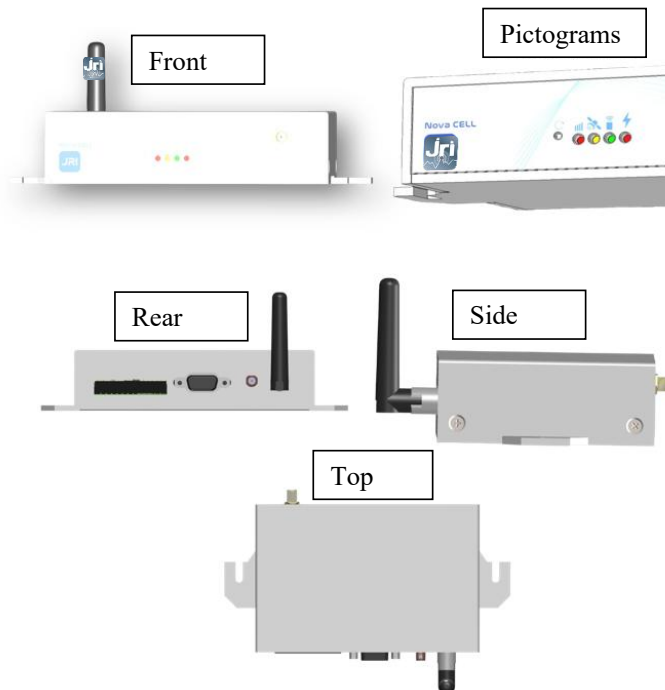
a) Sources of Interference or Signal Attenuation

- Presence of obstacles in the path of the waves between the Nova CELL and the Nano or Nova SPY sensors (e.g., metal walls) or near the antenna.
- A solid metal wall is impenetrable to radio waves. However, a perforated metal wall still allows the waves to pass through, albeit with attenuation.



III. PRESENTATION AND FUNCTION

Photos of the Nova CELL from all angles





	Function	Status	Action
	Power Supply	On	Battery-Powered in Acquisition Mode
		Off	Not Powered or in Standby Mode
	Communication Radio	On	Nano and Nova SPY Reader Error
		Blinking	Nano and Nova SPY Detection OK
		Flash	No Nano or Nova SPY Detected
		Off	Function Not Supported
	Géolocalisation (GPS)	On	GPS Error
		Blinking	Satellite Triangulation OK
		Flash	Insufficient Satellites in View
		Off	Function Not Supported
	Communication Cellulaire (4G)	On	Data Transmission Error
		Blinking	Modem Communication
		Fast Blinking	Communication with the MySirius App
		Off	Function Not Supported

IV. USAGE

Nova CELL devices can only be used with the JRI-MySirius software hosted on the JRI cloud or on a private server. They transmit data from Nano SPY and Nova SPY devices. Please refer to the MySirius online help for configuring the Nova CELL units. See the link below:

[MySirius - Index](#)

The Nova CELL 4G is a gateway that transmits information from Nano SPY and Nova SPY devices to the MySirius cloud via the 4G cellular network. It can be used in the following ways:

V. MAINTENANCE

Clean the device with a soft, dry, or slightly damp cloth. To remove stubborn dust, use a cloth dampened with a diluted, non-abrasive detergent, then carefully wipe it with a soft, dry cloth.
Never use benzene, thinner, alcohol, or any type of solvent, as this may cause discoloration or deformation of the surfaces.



The use of corrosive, reactive, or flammable products (e.g., acid or petroleum) on JRI equipment is prohibited. JRI equipment is designed for mapping and monitoring the temperature and humidity of thermostated or climate-controlled enclosures, within the limits described in the technical datasheets. For device maintenance, please refer to Section VI.
For any use other than those mentioned above, please contact JRI.

VI. TECHNICAL DATA

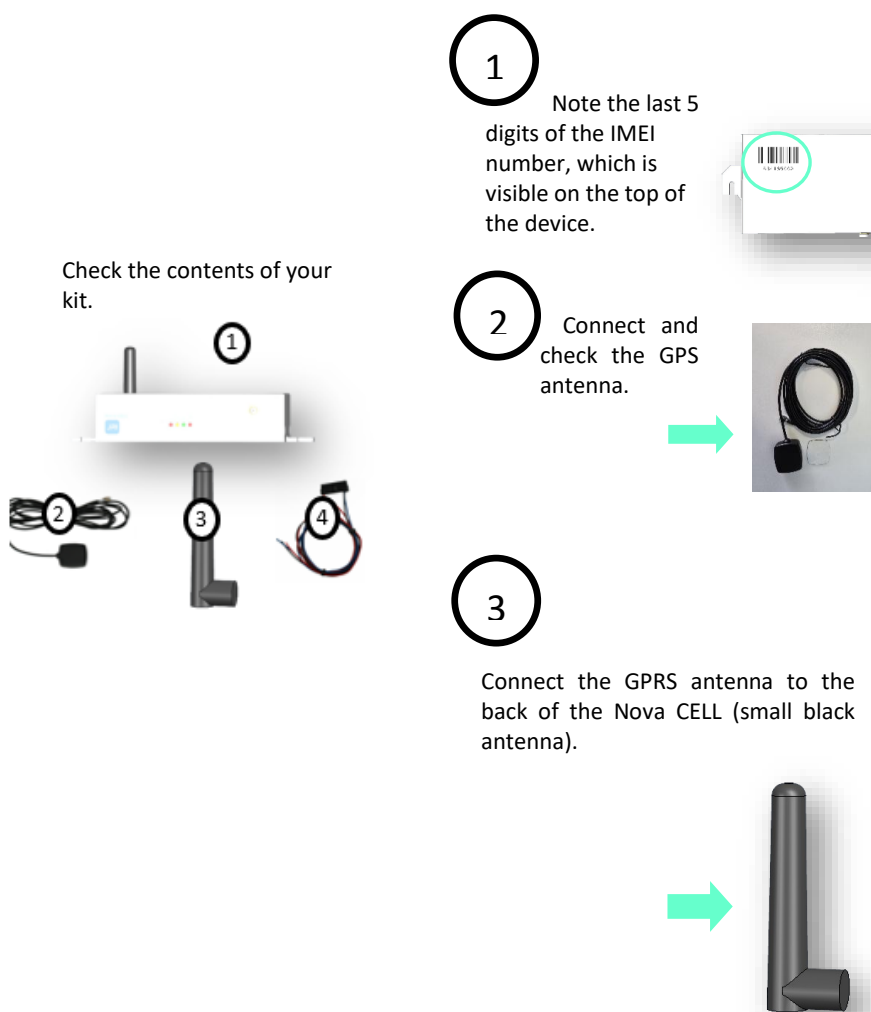
	Nova CELL 4G/GPS/2,4GHz with power supply	Nova CELL 4G/GPS/2,4GHz with Cigarette lighter adapter
References EMEA / APAC	13479 2	13480 2



References AMERICAS	14106 2	14107 2
Operating Temperature Range	-10°C à +55°C	
GPS Receiver	High-sensitivity receiver – Supports 20 GPS channels	
Nominal Voltage	5/32V	
Functions	4 LED indicators for proper operation	
Operating Voltage	De 9V à 32V	
Current Consumption at 12V	Hibernation mode: <1 mA Communication mode: 80 mA to 150 mA (depending on hardware options)	
Input/Output Type	5 digital inputs 4 open-collector outputs 2 analog inputs (0–12 V / 24 V)	
Backup Memory	48 hours with a 15-minute recording frequency	
Casing	White, shock-resistant, with 3M polypropylene adhesive strip	
Battery	Rechargeable 9 V battery	
Dimensions	With mounting brackets: 90 x 170 x 34 mm	
Weight	250 g	
Compliance	EN 301 489-1:2005 v1.6.1, 2004/104/CE Directive, EN 60950-1:2001	
Included	2 antennas: GPS and Cellular User manual available for download at www.jri.fr	

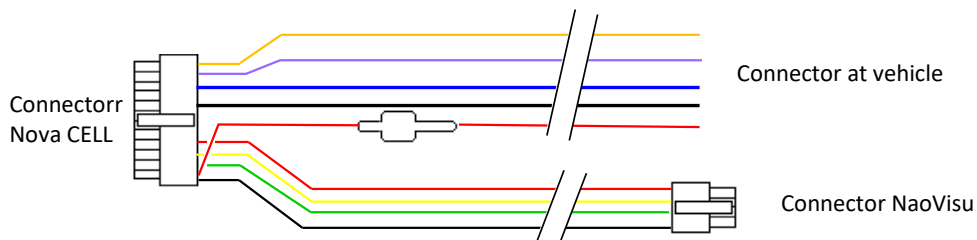
VII. USER GUIDE

a) Connecting the Nova CELL and Installing It in a Vehicle





- 4 Connect the four wires of the power cable to the vehicle's wiring harness through a 1.6A fuse:
- **Black wire:** Vehicle ground
 - **Red wire:** Permanent +12V/24V
 - **Blue wire:** Ignition (+12V/24V after key contact)

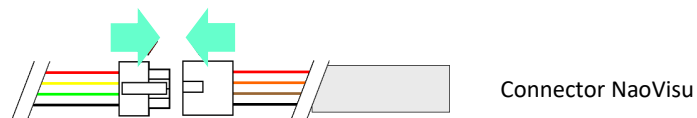


- 5 Connect the 4-wire cable connector to the device.



b) Connecting Nao/Nova VISU and Installing in a Vehicle

- 6 Connect the male and female connectors of the Nao/Nova VISU display.

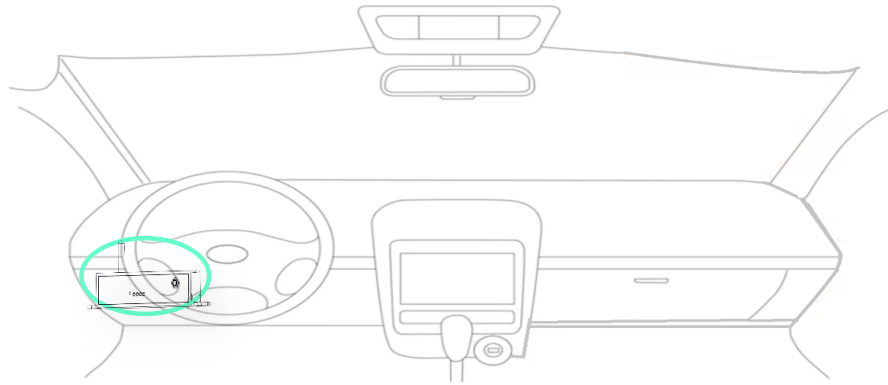


- 7 Install the Nano/Nova SPY sensors in the temperature-controlled compartments/packages, noting the assignment of identifiers to each compartment.



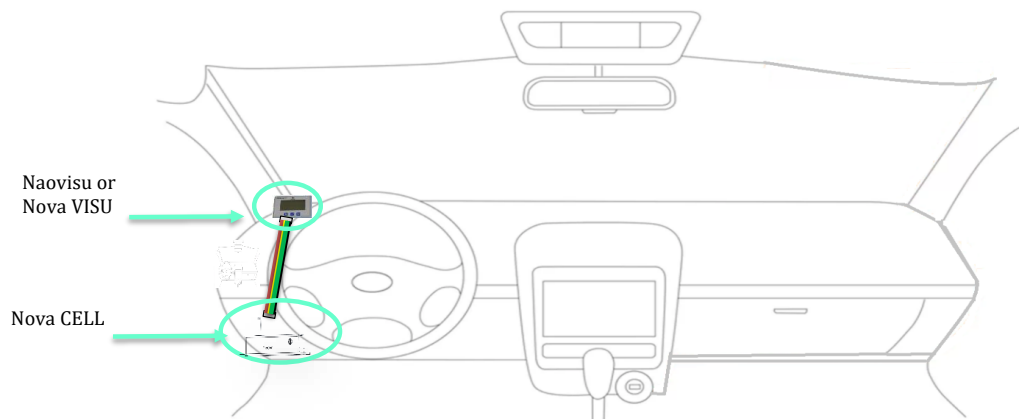


Installation of the Nova CELL module inside the dashboard

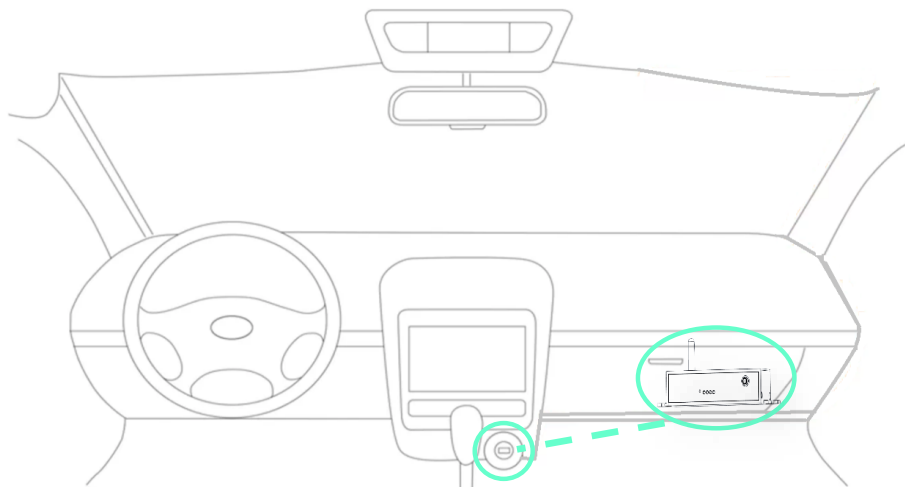


Installation of the Nova CELL module inside the dashboard and direct wired connection to the Nao/Nova VISU

(see ⑥ above for connection instructions).

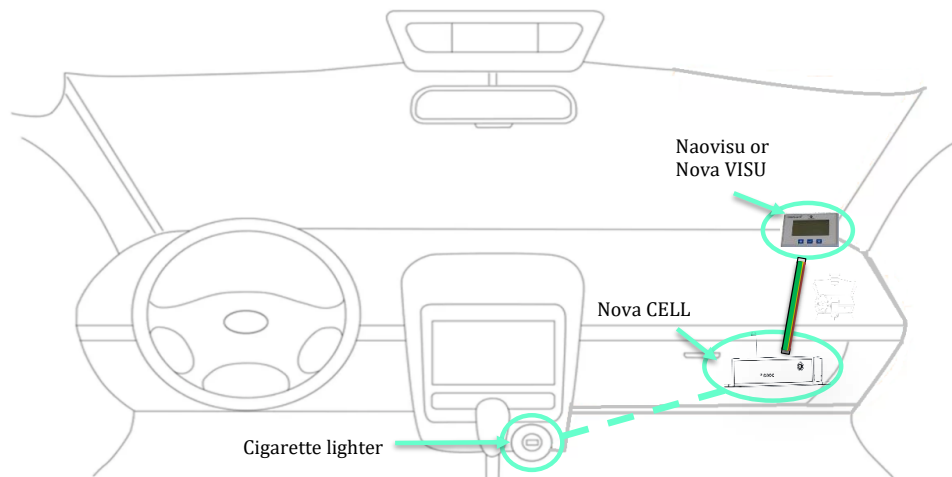


Installation of the Nova CELL module using the cigarette lighter socket.





Installation of the Nova CELL module via the cigarette lighter socket and direct wired connection to the Nao/Nova VISU (see 6 above for connection instructions)



c) Procedure for Changing the Micro SIM Card

To insert the Micro SIM card, follow these steps:

1. Ensure the Nova CELL device is powered off.
2. Remove the device cover by unscrewing the 4 screws and gently lifting the edges.

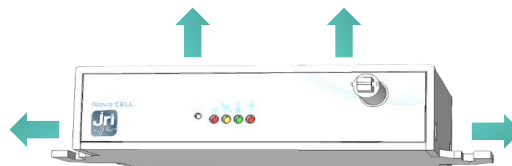


Figure 1: Opening the Nova CELL Enclosure

3. Insert the Micro SIM card (without a PIN code) into the SIM card holder slot.

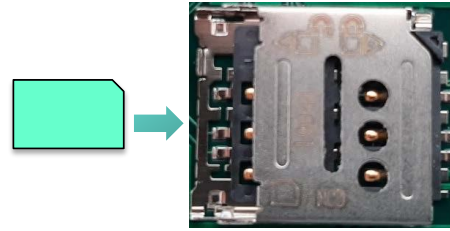


Figure 2: Inserting the Micro SIM Card into the Acquisition Device

Close the Nova CELL enclosure, ensuring that the edges and screws are properly secured.



Make sure to disable the SIM card's PIN code before inserting it into the system. Otherwise, the Nova CELL device will lock the card, rendering it unusable.

To establish communication between the acquisition device and the mobile GSM/GPRS network, it is also recommended to use a Machine-to-Machine (M2M) type subscription.

1. Provide the Micro SIM card details to your distributor or JRI contact:

- Phone number
- APN number
- Password (if applicable)

d) Model-Specific Characteristics

Nova CELL 4G/GPS/2.4GHz with power supply

Product References:



- 13479 2: EMEA / APAC Region
- 14106 2: AMERICAS Region

For more information, please refer to the product's webpage.

Nova CELL 4G/GPS/2.4GHz with cigarette lighter plug

Product References:



- 13480 2: EMEA / APAC Region
- 14107 2: AMERICAS Region

For more information, please refer to the product's webpage.

VIII. ENVIRONMENTAL PROTECTION

JRI encourages its customers to dispose of unusable or irreparable measuring or recording equipment in a manner that is responsible and environmentally friendly. When waste production cannot be avoided, it is recommended to reuse or recycle materials in a way that is appropriate for their nature and for environmental



protection.

RoHS Compliance:

European Directive 2017/2102 (EU) of November 15, 2017 limits the use of certain hazardous substances in electrical and electronic equipment.

Based on information provided by its suppliers, JRI certifies that the products it manufactures or distributes comply with the RoHS directive and can be ordered as such at the time or after the issuance date of the RoHS compliance certificate. This compliance implies that:

- The products do not contain regulated substances above the limits set by Article 4(1) of the directive, or
- When removal of certain substances is technically impossible, their presence is allowed for specific applications listed in the annex of the directive.

JRI has taken all necessary measures to validate the accuracy of the information provided by its suppliers regarding the absence of regulated substances.



Recycling: To avoid any risk of explosion, do not dispose of Nova SPY-type products in household waste, and do not burn or crush them.