solar**edge**

User Guide

Communication Board for Inverters with SolarEdge Go Configuration

Version 1.0

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Revision history

Version 1.0, June 2025: Initial version

Activate, commission and configure the system

After the solar system is installed, it is important to activate and commission the solar system. Activation and commission of the system is performed using SolarEdge Go mobile application.

During the activation and commissioning, the inverter discovers and communicates with all connected components in the solar system, such as: optimizers, peripheral communication devices and other linked inverters. When commissioning is performed, the user is required to set the grid parameters and backup Voltage information (if used).

Before starting the activation and commissioning, verify the all the communication hardware is properly connect. For communication options, refer to: *Setting Up [6] Communication with the Monitoring Platform [6]*.

Before activation and commissioning, download the SolarEdge Go application to your mobile device from:

To download SolarEdge Go an internet connection, a one-time registration and log in is required.

Step 1: Activate the installation

During system activation, a Wi-Fi connection is created between the mobile device and the inverter and the system firmware is upgraded.

Before activation:

Download, register (first time only) and login to SolarEdge GO on your mobile device.

- Verify that the application is updated with the latest version.
- If applicable, turn on all devices (battery, Energy Meter) connected to the inverter, so that the devices may be auto-detected.

To activate the inverter:

1. Turn-on the AC circuit breaker on the main distribution panel.

2. Open **SolarEdge Go**, tap **Install** and follow the on-screen instructions: Scan the inverter barcode and Move the ON/OFF/P switch to P position for 2 seconds and release.

   SolarEdge GO creates a Wi-Fi connection, upgrades the inverter firmware and activates the inverter.

3. When the activation is complete, in the **Ready for Commissioning** screen tap **Continue** for setting country grid code, pairing and other system configurations.

Step 2: Commission and Configure the installation

This section describes how to use the menus for commissioning and configuring the inverter settings.

Menus may vary in your application depending on your system type.

To access the Commissioning screen doone of the following:

- During first time installation: Upon activation completion, in the **Ready for Commissioning** screen, tap **Continue**.

- **If the inverter has already been activated and commissioned:**

  - If not already ON - turn ON AC to the inverter by turning ON the circuit breaker on the main distribution panel.

  - Open SolarEdge Go, tap Install and follow the on-screen instructions (scan the inverter QR code, move the ON/OFF/P switch to P position for 2 seconds and release).

    The mobile device creates a Wi-Fi connection with the inverter and displays the main Commissioning screen.

Set Country & Grid

The inverter must be configured to the proper settings to ensure that it complies with the country grid code and functions. If these settings are selected, the inverter does not start production.

1. From the **Commissioning** screen, select **Country & Grid**.

2. From the **Country & Grid** dropdown, select the required option, tap **Set Country & Grid**.

Pairing

1. From the **Commissioning** menu, select **Pairing**.

2. Tap **Start Pairing**.

3. When **Pairing Complete** is displayed, the system startup process begins: Since the inverter is ON, the Power Optimizers start producing power and the inverter starts converting AC.

> ⚠️ **WARNING**
>
> When you turn ON the inverter ON/OFF/P switch, the DC cables carry a high Voltage and the Power Optimizers no longer output a safe output.

When the inverter starts converting power after the initial connection to the AC, the inverter enters Wake up mode until its working voltage is reached. This mode is indicated by the flickering green inverter LED.

When working voltage is reached, the inverter enters Production mode and produces power. The steadily lit green inverter LED indicates this mode.

4. Tap **OK** to return to the **Commissioning** menu.

Communication

Communication settings can be configured only after communication connections are complete. Refer to Set up communication with the Monitoring platform [6].

- Select **Monitoring Communication** to configure communication with the Monitoring platform.
- Select **Devices** to configure communication between multiple SolarEdge devices or external non-SolarEdge devices, such as batteries or loggers.

Power control

Power control options are detailed in the *Power Control Application Note*, available on the SolarEdge website at https://knowledge-center.solaredge.com/sites/kc/files/application_note_power_control_configuration.pdf.

The Grid Control option may be disabled. Enabling it opens additional options in the menu.

The Energy Manager option is used for setting power export limitation, as described in the *Export Limitation Application Note*, available on the SolarEdge website at: https://www.solaredge.com/sites/default/files/feed-in_limitation_application_note.pdf.

Step 3: Verify proper activation and commissioning

1. Select **Information** and verify that the correct firmware versions are installed on each inverter.

2. Select **Status** and verify that inverter is operating and producing power.

3. Verify that additional configurations were properly set by viewing the relevant Status screens.

4. Verify that the green inverter LED is steadily lit.

   Your SolarEdge power harvesting system is now operational.

Communication status indications

This screen displays the status of connection option(s): LAN, CANBus, RS485, Wi-Fi, or SolarEdge Home Network.

For each communication option, one of the following statuses is displayed:

- **Connected**: The inverter established a successful connection and communication with the specified server port

- **NC**: Not Connected

- **S_OK**: The connection to the Monitoring platform is successful (should appear only if the is connected to the server)

- **N/A** : Not Applicable

- **x of y**: Number of devices connected out of all devices

- Temporarily displayed (with a ⏱ clock sign):

  - Initializing communication

  - Connecting to a network

  - Connecting to SolarEdge servers

- Error message (with the ⚠ sign)

Set up communication with the Monitoring platform

The inverter sends the following information to the Monitoring platform:

- Power Optimizer information received via the DC power lines (the PV output circuit)

- Inverter information

- Information of any other connected devices

This chapter describes how to set up communication between:

- The inverter and the Monitoring platform through the Internet (wired/ wireless)

- Multiple inverters for a leader-follower configuration

Communication setup is not required for power harvesting, however it is needed for using the Monitoring platform.

> ⚠ **CAUTION**
>
> When connecting the communication cables, make sure that the ON/OFF switch on the inverter is turned OFF, and the AC is turned OFF. When configuring the communication parameters, make sure that the ON/OFF switch (and the switch of the Connection Unit if applicable) is OFF, and the AC is turned ON.

Communication options

The following types of communication can be used to transfer the monitored information from the inverter to the Monitoring platform.

Only communication products offered by SolarEdge are supported.

Ethernet

Ethernet is used for a LAN connection.

CANBus

Use CANBus to connect multiple SolarEdge devices on the same bus, in a leader-follower configuration. You can also use CANBus as an interface for external devices, such as SolarEdge batteries.

RS485

RS485 is used for the connection of multiple SolarEdge devices on the same bus in a leader-follower configuration. RS485 can also be used as an interface to external devices, such as meters and third-party data loggers.

Wi-Fi

This communication option enables using a Wi-Fi connection for connecting to the Monitoring platform.

SolarEdge Home Network

SolarEdge Home Network is used to connect to wireless meters, smart energy devices, and so on. It is not used for communication with the Monitoring platform.

Federal Communication Commission Interference statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This 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 of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

> ⚠️ **CAUTION**
>
> Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
>
> This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
>
> FOR MOBILE DEVICE USAGE (>20cm/low power)

Radiation exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

> 📝 **NOTE**
>
> The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must be fixed to US operation channels only.

This device is intended only for OEM integrators under the following conditions:

- The antenna must be installed such that 20 cm is maintained between the antenna and users, and

- The transmitter module may not be co-located with any other transmitter or antenna.

- Module approval valid only when the module is installed in the tested host or compatible series of host which have similar RF exposure characteristic with equal or larger antenna separation distance.

> ❗ **IMPORTANT**
>
> In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator is responsible for reevaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End product labeling

FOR MOBILE DEVICE USAGE (>20cm/low power)

This transmitter module is authorized for use only in devices where the antenna can be installed to ensure a minimum separation distance of 20 cm from users. The final product must display the following label in a visible location: "Contains FCC ID: 2AGPT-PLNX3." The grantee's FCC ID may be used only if all FCC compliance requirements are satisfied.

Manual information to the end user

The OEM integrator must not include instructions in the end product's user manual on how to install or remove this RF module.

The end user manual must include all required regulatory information and warnings as provided in this manual.

Installation personnel

This product is designed for specific application and needs to be installed by qualified personnel who have RF and related rules knowledge. The general user shall not attempt to install or change the setting.

List of applicable FCC tules

This module has been tested for compliance to FCC Part 15C.

Additional testing, Part 15 Subpart B disclaimer

This transmitter module is tested as a subsystem and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host still needs to be reassessed for compliance to this portion of the rule requirements, if applicable.

If all the above conditions are met, further transmitter tests are not required. However, the OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this installed module.

Industry Canada statement

This device complies with ISED's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

FOR MOBILE DEVICE USAGE (>20cm/low power).

Radiation exposure statement

This equipment complies with ISED radiation exposure limits for an uncontrolled environment. It must be installed and operated with a minimum separation distance of 20 cm between the radiator and the user's body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

This device is intended only for OEM integrators under the following conditions: (For module device use)

1. The antenna must be installed such that 20 cm is maintained between the antenna and users.

2. The transmitter module may not be co-located with any other transmitter or antenna.

3. Module approval valid only when the module is installed in the tested host or compatible series of host which have similar RF exposure characteristic with equal or larger antenna separation distance.

If the three conditions above are met, a further transmitter test is not required. However, the OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this installed module.

Cet appareil est conçu uniquement pour les intégrateurs OEM dans les conditions suivantes: (Pour utilisation de dispositif module)

1. L'antenne doit être installée de telle sorte qu'une distance de 20 cm est respectée entre l'antenne et les utilisateurs, et

2. Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

3. Approbation du Module valable que lorsque le module est installé dans l'hôte testé ou de la série de l'hôte compatible qui ont même caractéristique de l'exposition aux RF avec la distance égale ou supérieure séparation antenne.

Tant que les 3 conditions ci-dessus sont remplies, des essais supplémentaires sur l'émetteur ne seront pas nécessaires. Toutefois, l'intégrateur OEM est toujours responsable des essais sur son produit final pour toutes exigences de conformité supplémentaires requis pour ce module installé.

> **⚠ IMPORTANT**
>
> In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator is responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.
>
> Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considéré comme valide et l'ID IC ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada.

End product labeling FOR MOBILE DEVICE USAGE (>20cm/low power)

This transmitter module is authorized for use only in devices where the antenna can be installed to ensure a minimum separation distance of 20 cm between the antenna and the user. The final product must be labeled in a visible location with the following statement: "Contains IC: 20916-PLNX3".

Plaque signalétique du produit final

Ce module émetteur est autorisé uniquement pour une utilisation dans un dispositif où l'antenne peut être installée de telle sorte qu'une distance de 20cm peut être maintenue entre l'antenne et les utilisateurs. Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: "Contient des IC: 20916-PLNX3".

Manual information to the end user

The OEM integrator must not include instructions in the end product's user manual on how to install or remove this RF module.

The end user manual must include all required regulatory information and warnings as provided in this manual.

Manuel d'information à l'utilisateur final

L'intégrateur OEM doit être conscient de ne pas fournir des informations à l'utilisateur final quant à la façon d'installer ou de supprimer ce module RF dans le manuel de l'utilisateur du produit final qui intègre ce module.

Le manuel de l'utilisateur final doit inclure toutes les informations réglementaires requises et avertissements comme indiqué dans ce manuel.

Installation personnel

This product is designed for specific application and needs to be installed by qualified personnel who have RF and related rules knowledge. The general user shall not attempt to install or change the setting.

Installation

Ce produit est destine a un usage specifique et doit etre installe par un personnel qualifie maitrisant les radiofrequences et les regles s'y rapportant. L'installation et les reglages ne doivent pas etre modifies par l'utilisateur final.

Detachable antenna usage

This radio transmitter (IC: 20916-PLNX3/ Model: 2AGPT-PLNX3) has been approved by the ISED to operate with the antenna type listed below with maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 20916-PLNX3/ Model: 2AGPT-PLNX3) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Approved antenna(s) list:

Type	Gain	Impedance	Brand	Manufacturer
Dipole	3dBi	50 Ohm	SolarEdge	SolarEdge