

## **Installation Guide**

# **Gateway 4035**

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# FCC and ISED (IC) statements

## FCC statements

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.

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

**Note:** 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 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.

### Exposure statement

This equipment complies with FCC/IC RF exposure limits set forth for general population/uncontrolled exposure, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from any persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

### Label

The gateway device, model *Gateway 4035*, must be labeled to say **FCC ID: Y7V-GW4035C1**.

## ISED (IC) statements

This device complies with Industry Canada licence-exempt RSS standard CAN ICES-3 (B)/NMB-3(B) B.

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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

The radio transmitter **IC: 9514A-GW4035C1** has been approved by Industry Canada to operate with the antenna type listed below with the indicated maximum permissible gain and required antenna impedance. 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.

| Name/Model                     | Gain    | Impedance |
|--------------------------------|---------|-----------|
| 2.4 MHz F-inverted PCB antenna | 3.0 dBi | 50 ohm    |

### Exposure statement

This equipment complies with FCC/IC RF exposure limits set forth for general population/uncontrolled exposure, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from any persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

### Label

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

The gateway device, *Gateway 4035*, must be labeled to say **IC: 9514A-GW4035C1**.

## Déclarations d'ISED (IC)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformément aux réglementations d'Industry Canada, cet émetteur radio peut uniquement fonctionner à l'aide d'une antenne dont le type et le gain maximal (ou minimal) pour cet émetteur est approuvé par Industry Canada. Pour réduire le risque d'interférence éventuelle pour les autres utilisateurs, le type et le gain de l'antenne doivent être choisis de manière à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure à la puissance nécessaire à une bonne communication.

L'émetteur radio **IC: 9514A-GW4035C1** a été approuvé par Industry Canada pour une utilisation avec les types d'antenne indiqués ci-dessous avec le gain maximum autorisé indiqué et l'impédance d'antenne requise. Il est strictement interdit d'utiliser avec cet appareil un type d'antenne ne figurant pas dans cette liste ou ayant un gain supérieur au gain maximum indiqué pour ce type.

| Appellation/Modèle             | Gain    | Impédance |
|--------------------------------|---------|-----------|
| Antenne 2.4 MHz F-invertée PCB | 3.0 dBi | 50 ohm    |

### Déclaration d'exposition aux rayonnements

Cet équipement est conforme aux limites d'exposition RF d'Industrie Canada établies pour la population générale / exposition non contrôlée. L'antenne utilisée pour cet émetteur doit être installée pour fournir une distance de séparation d'au moins 20 cm de toute personne et ne doit pas être co-localisée ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

### Étiquette

Le terme "IC" devant le numéro de certification signifie seulement que les spécifications techniques Industrie Canada ont été respectées.

Le Modèle *Gateway 4035* doit porter une étiquette avec la mention: **IC: 9514A-GW4035C1**.

# 1. Introduction

This guide describes the dimensions, LEDs, ports etc on *Gateway 4035* (from now on in this document referred to as 'gateway').

**Important:** Before mounting the gateway, it must be commissioned by *StorSynx* application. Use the user credentials to log in and navigate to the device list. Select the **Gateways** section and initiate the addition procedure by clicking the **Add Gateway** button. There are two options for adding the gateway:

- 1) scanning the QR code
- 2) inserting the serial number manually

Wait for the pairing to complete. Once the gateway is commissioned, it will be active and part of the network.

**Note:** Placement of the gateway must be performed by authorized personnel to ensure the best antenna conditions.

## 1.1 Network interfaces

There are two network interfaces available on the device:

- Over Ethernet, to connect the gateway to the cloud backend
- Over BLE channels, Mira Mesh network to allow other devices to connect to the gateway.

## 1.2 Technical limitations

No more than 200 nodes can be added for each gateway. The application will prompt the installer if the limit is reached.

# 2. Dimensions

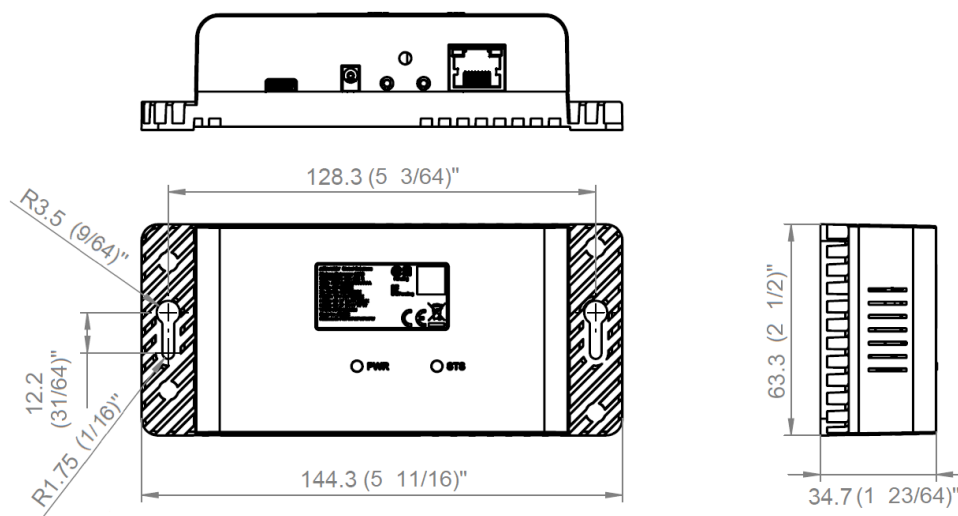
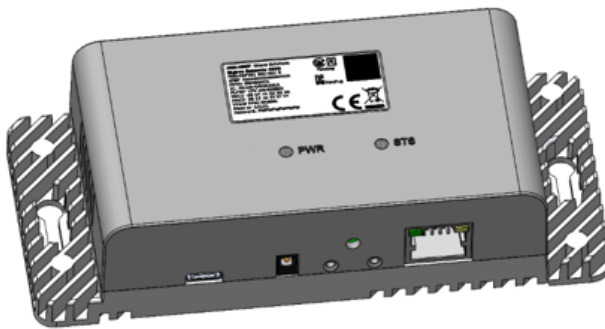


Figure 1: Gateway dimensions in mm (inches)

### 3. LED signals



The power LED (marked **PWR**) shows a green light when the gateway is powered up.

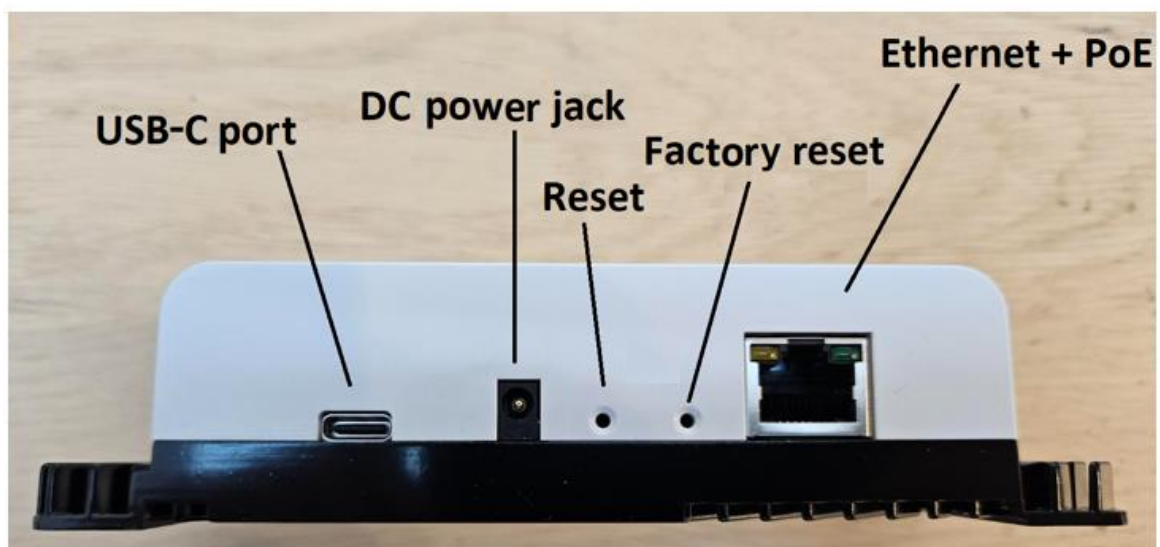
The status LED (marked **STS**) signals according to Table 1.

Figure 2

| LED signal            | Description                                     |
|-----------------------|-------------------------------------------------|
| No signal             | Gateway is starting up                          |
| Blinking green (fast) | Gateway is initializing connection to the cloud |
| Blinking green (slow) | Gateway is connected to the cloud               |
| Solid purple          | Firmware upgrade or verification is in progress |
| Solid orange          | Gateway is not provisioned to the cloud         |
| Blinking red (slow)   | Error when connecting to the cloud              |
| Blinking red (fast)   | Other error                                     |

Table 1

### 4. Gateway ports etc



The **Reset** button performs a hardware reset, i.e. restarts the gateway unit.

## 5. Quick reference of technical data

- Powering options:
  - Power adapter 12VDC/1A is included at delivery
  - PoE IEEE 802.3at Class 2 (output power 6.49W)
- Low power consumption
- Flame retardant ABS
- UL94 V-0 approved
- Colour: white
- Suitable for operation in the range 5-50° C and 10-90% non-condensed relative humidity
- Preferred way of mounting the gateway is in the ceiling

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