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# Smart Sensor Gateway

## USB Dongle - Buying and Usage Guide

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# Smart Sensor Gateway - USB Dongle

## General Information

Smart Sensor Gateway has three options for internet connection:

- Wired
- WIFI
- Mobile connection (USB dongle + SIM)

In case customer does not have an open network (no VPN and firewall ports opened for communication), a mobile connection is needed. This can be achieved with external mobile WIFI router or with USB dongle attached to the Gateway.

Smart Sensor Gateway supports mobile connection with USB dongle. However, each new USB dongle model needs to be configured separately. There is one USB dongle which has been pre-configured for the Gateway and it also works globally. This recommended dongle to be used is:

- Huawei MS2131i-8

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## Huawei MS2131i-8

Huawei MS2131i-8 is an 2G/3G USB dongle indented for industrial machine to machine communications.

<https://consumer.huawei.com/solutions/m2m-solutions/en/products/tech-specs/ms2131-en.htm>

Dongle needs to be purchased locally. List of distributors are available in via Huawei's own pages:

<https://consumer.huawei.com/solutions/m2m-solutions/en/contact-us/index.htm>

Mobile connection service (SIM) also needs to be purchased locally.



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## Installation Instructions

To get the Gateway connected to the internet via USB dongle you need:

- PIN request disabled from the SIM card.
- Internet access point (APN) name. Usually “*internet*” but depends on your service provider.

Once the PIN request has been disabled, insert the SIM inside the USB dongle and attach the dongle to USB port at the bottom of the Gateway. Follow the instructions from the [Gateway Installation Manual](#).

If the mobile network signal strength is weak at installation location there is a possibility to use an external antenna to make the signal strength better.

If there is still no signal available, it is recommended to use an external mobile WIFI router. It has the benefit to be located where the mobile network signal is available and use the WIFI network to connect the Gateway to the internet. It also has the benefit to have several Gateways connected with one mobile service subscription.



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