



Internal Use

Installation strict guidelines for the Wirnet™ iStation

(Application Note extract)

1 Introduction

You can flexibly use the Wirnet iStation either with the embedded internal (LoRa®) antenna either with an external (LoRa®) antenna.

Kerlink found disparity in the length of the pins of the market accessories that could be connected to the Wirnet iStation: if these pins are too long, they can mechanically permanently damage the Wirnet iStation connector internal mechanical switch that selects the internal or external antenna, thus potentially generating loss of performance and preventing the later use of the internal antenna.

This document highlights specific installation guidelines for the Wirnet iStation to easily avoid these pitfalls and ensure the full performance and flexibility of the product. If you already installed your product and face some issues, these instructions can also bring immediate troubleshooting instructions to fix the situation. Additionally, the General installation instructions will be updated and detailed in the related Application Note, available on the wiki, along with this document.



Please strictly abide by these recommendations when installing your product, to avoid any malfunction, damage or loss of performance that may not be covered by the manufacturer warranty / extended warranty.

Should you have any question related to our product and its installation after reading this guide, please contact our value-added resellers or Kerlink Technical Customer Support at:

support@kerlink.fr

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2 Installation Pack Content

This installation set contains the following elements:

- 1 instruction guidelines (this document)
- 1 Kerlink specific adapter, not to be substituted by another reference (below picture)



- 1 x 20 cm of self-amalgamating tape (below picture)



- 1 removable yellow sticker on the front of the gateway (below picture)



3 Using the internal antenna

Nothing to do, it is the by-default configuration.

Do NOT screw the adapter, otherwise the product would consider an external antenna connection, thus deactivating the internal antenna.



4 Using an external antenna:

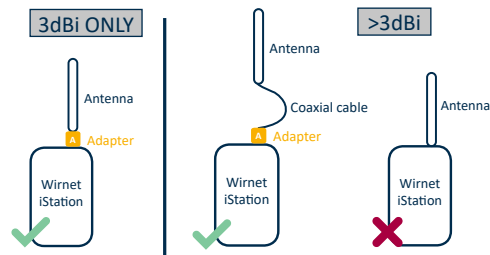
Screw the Kerlink Adapter directly on the Wirnet iStation (mandatory)

If not done, the Wirnet iStation connector mechanical switch that selects the internal or external antenna could be permanently damaged, thus engaging the customer responsibility as this damage will not be covered by the warranty.

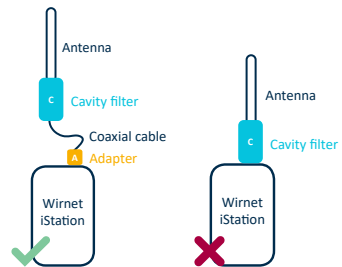
Individual parts are designed for manual clamping so as not to damage the connectors.

Please strictly comply with these diagrams

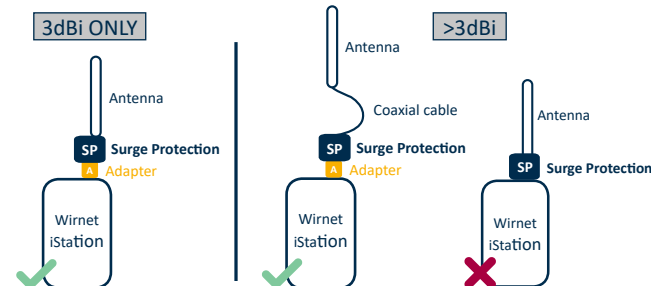
Antenna



Antenna \geq 3dBi + cavity filter



Antenna + Surge Protection



Which referencies of iStation need the adapter?

Product ID/ Packaging ID	
XXXa01YYY	Need adapter
XXXb02YYY	Need adapter
XXXc03YYY	Need adapter
XXXd04YYY	Need adapter
XXXe05YYY	OK No need adapter

5 Application of the protecting tape

Once the adapter is installed and the accessories are connected (external antenna / surge protection), be sure to apply the self-amalgamating industrial tape as shown in the picture below.

This is simply an additional way to improve the durability of the RF connections against environmental aggression (moisture, pollution, etc.) and ensure their reliability overtime.



Important Note:

If you later want to use the internal antenna, **the adapter must be removed** - see section 3

Hoping that this product will bring you full satisfaction in your IoT deployments, we remain at your entire disposal for any help and support.

Thank you again for your trust and confidence.

Yours sincerely,

Kerlink Team

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