SICK.COM




INFORMATION

# CORIVA SYSTEM STARTER-KIT

6090727

SICK Sensor Intelligence

# CORIVA SYSTEM STARTER-KIT

## ABOUT

The Coriva System Starter-Kit is your perfect door to the world of precise tracking using UWB technology, with the world's first omlox-compliant UWB core zone.

At the heart of the Starter-Kit is the CorivaEngine, our state-of-the-art software featuring a highly precise UWB locating engine. It features a step-by-step setup guide that covers map upload, auto-topology configuration, and multi-hub connection: allowing your starter system to be up and running in less than 10 minutes.

Additionally, the CorivaHub Lite software allows you to effortlessly connect your own applications by means of a full range of functionality through omlox compliant APIs. All components are backed by a 12-month license, providing you a robust bundle to kickstart your locating project and drive innovation forward.

The Starter-Kit can be seamlessly expanded into a full project by expansion with additional Satellite and Tag hardware, additional CorivaEngine licenses and if required, purchase of full CorivaHub software. **Kindly take note** that in most cases, redeployment of software is needed for productive use since the included Edge Computer is usually not suited for productive internal IT-managed use where server-level architecture is generally the norm.

## SALES INFORMATION

Part Number for Ordering: **6090727 - CORIVA SYSTEM STARTER-KIT**

Please use the above part number in your request for quote.

## WHAT'S IN THE BOX



## SCOPE OF SUPPLY

Please refer to the 3 **(three)** sections below:

### 1. Included hardware components:

- 6 CorivaSat with mounting brackets
- 3 CorivaTag+ with mounting bracket
- 1 Edge Computer (NUC PC preinstalled with software) and power adaptor
- 1 PoE Switch and power adaptor
- 1 wireless charging pad for tags




6X 3X 1X

Please kindly note that ethernet cables are not included.

### 2. Included services

- 4-hour online remote support (set-up service & training)



### 3. Included software components:

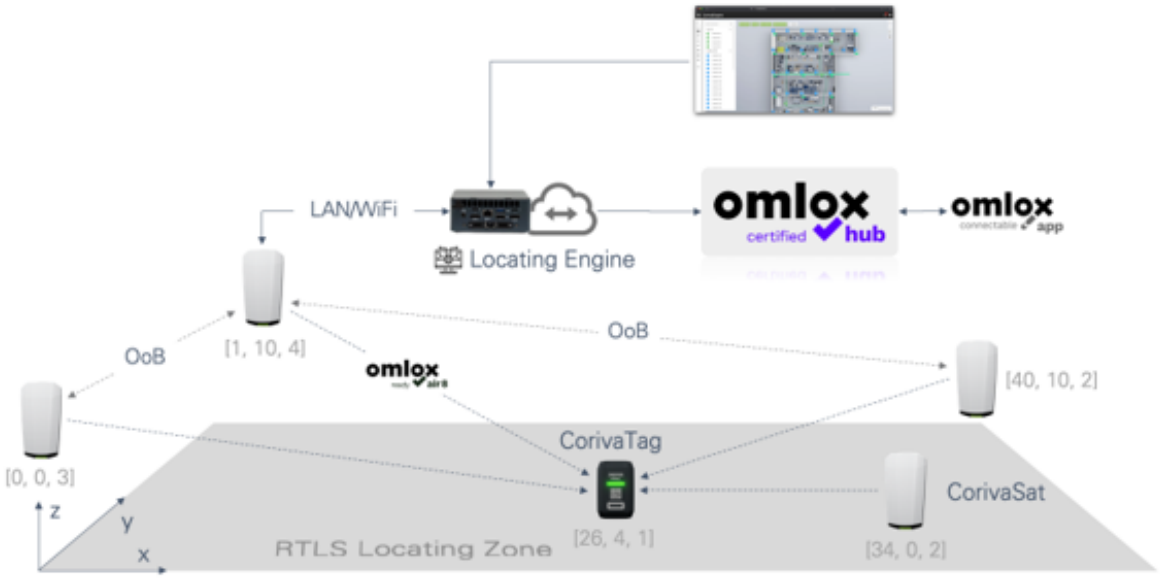
- Coriva Engine
  - pre-installed, 1 year license
  - omlox core zone v2 compliant
  - highly precise asset tracking
  - Auto-Topology setup
  - Monitoring



- Coriva Hub
  - pre-installed, 1 year license
  - highly precise georeferenced engine
  - Geofence and Collision events
  - System configuration
  - Map visualization



## REFERENCE SET-UP

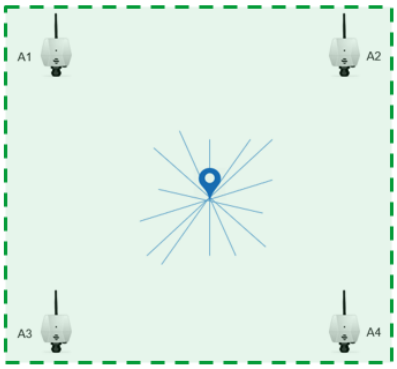


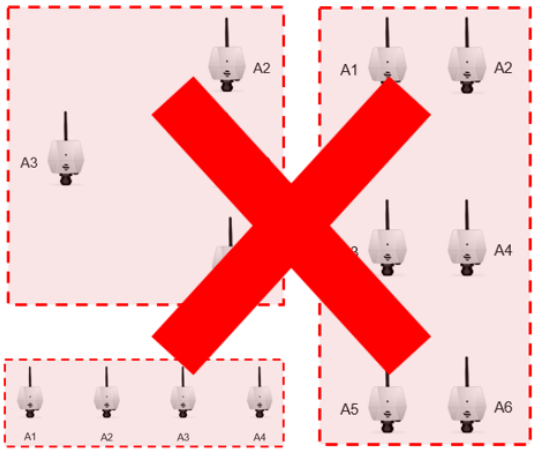

## INSTALLATION NOTES

The recommended distance between UWB Satellite to UWB Satellite is not more than 20 meters for the best performance. Above 20 meters, the accuracy cannot be guaranteed. Above 30 meters, the signal between satellites cannot be guaranteed (i.e. the system cannot work).

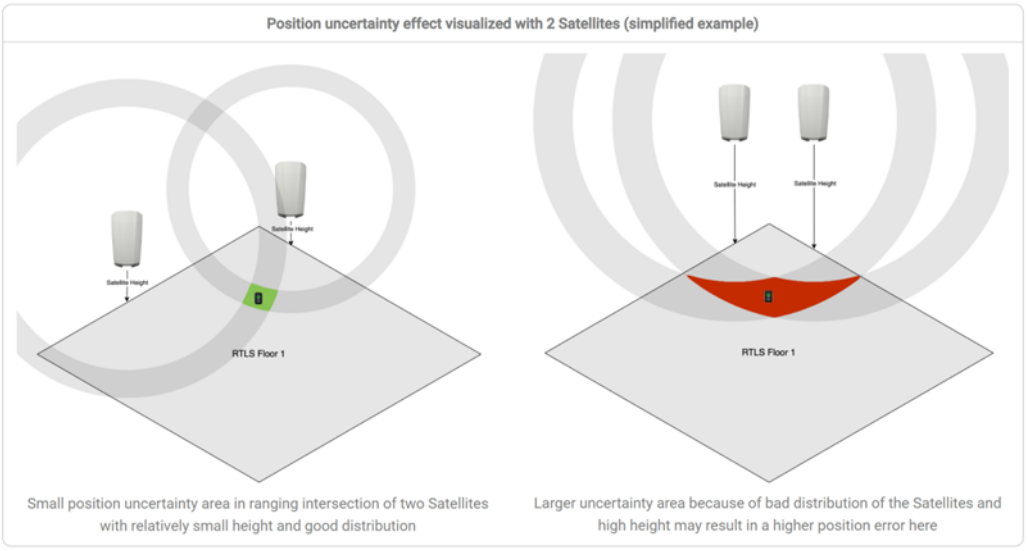
In addition, to assure the best performance, the Satellites must be arranged in a grid fashion that is closely following a square arrangement such that the ratio of length to width is **ideally around 1:1** and it **should not exceed** the ratio of 1:3.

Please refer to the figure below:



The reason for this is to avoid the effects of “dilution of precision” which will decrease the total accuracy of the locating system when multiple triangulation paths intersect. This effect is simply explained in the figure below:




Finally, and most importantly, please keep a clear line of sight between the tag and as many Satellites as possible, for the best performance of your system. Please refer to the figure below:



**CONCLUSION**

Thank you for your interest in the CORIVA SYSTEM STARTER-KIT.

SICK's Digital Solutions unit develops complete system-level solutions and related services as well as integration into customers' enterprise applications and ecosystems. These solutions close the gap between the production shopfloor/warehouse and IT, integrating at the process level. This is SICK's response to the increased dynamics and complexity of customer requirements.

We will continuously strive to be your trusted solution partner, providing integrated Digital Solutions from one reliable place.

What is OMLOX? > The Open Locating Standard: omlox