

FCL Components Wireless Solutions



IoT Connectivity Solutions Evaluation Kit

IoT Connectivity Solutions Evaluation Kit FWM-WMKIT01-E1

The FCL Components Mesh Evaluation Kit makes it easy to test and evaluate. FCL Components Mesh devices in combination with the Wirepas Mesh technology.

Featuring a complete kit with anchor nodes and asset tags for asset tracking and full packed sensor nodes for environment monitoring. The cloud setup includes the Wirepas Network Tool (WNT), Wirepas Mesh Positioning Engine (WPE), and a web-based sample dashboard application.

The Mesh Evaluation Kit can be installed quickly and easily as it comes equipped with all the necessary settings and cloud setup to ensure it's working right out of the box.

Evaluation Kit FWM-WMKIT01-E1 Content

- 20pcs Anchor nodes (FWM8BLZ07P)
- 5pcs Asset tags (FWM8BLZ07P)
- 5pcs Sensor tags (FWM8BLZ07Y)
- 1pcs Gateway (FWM7GWZ01)



Installation

Tag the assets you want to track through the area. Place the sensor devices in the rooms where monitoring temperature, humidity, barometric pressure, movement, luminance and luminance is relevant for the evaluation.

Network operation analysis

The diagnostics data from the network is gathered and sent via the gateway to the cloud that collects and analyzes the information. Since the information is visualized in the WNT (Wirepas Network Tool) client application, the user can monitor and analyze the Wirepas Mesh network operation.

Asset tracking evaluation

The WPE (Wirepas Mesh Positioning Engine), which is a software component running in the cloud, takes data from Wirepas Mesh and outputs location as well as area information for devices in the network. It is possible to use WNT client to visualize each device's location as sample application for asset tracking.

Sensor network evaluation

The Wirepas Mesh-based sensor unit makes it possible to easily install and build a sensor network on the user's site. The user can monitor data from the multiple sensors in each sensor unit by using this web-based sample dashboard application which is running in the cloud.



The kit

The kit contains 20 mesh nodes configured as anchor nodes and can cover over 100m² of floor, achieving room level accuracy asset tracking.

5 mesh nodes are configured as asset tags which can easily be mounted on any asset.

Also included are 5 sensors nodes for environment monitoring with the following sensors on board:

- Temperature
- Humidity
- Barometric pressure
- Luminance (intensity of the ambient light)
- 3 -axis acceleration
- Sound level

The kit comes with a standard three-month software evaluation license and cloud instance.

FCL Components works with a wide variety of eco-system partners who are either specialized in the back-end software or specialized hardware to offer complete IoT solutions. Contact your local sales for eco-system partners and solution possibilities.

- The devices are being supplied without CR2450 coin cell batteries due to shipment restrictions on Lithium batteries.

Applications



Sensors

Reliable connection with real-time visibility in a highly scalable network. Control and optimize environmental conditions intelligently.



Asset Management

Track the locations of various assets. Roll cages, boxes and crates in distribution centers, beds and instruments in hospitals and other valuable corporate assets.



Smart Metering

Connect an unlimited number of metering points together in a highly scalable network.



Lighting

Intelligent lighting of Smart Cities and Smart Buildings enabled with FCL Components' IoT Connectivity Solutions.

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