



WITTRA™

# IOT OUT OF THE BOX

 CONNECT

 SENSE

 LOCATE





# IOT OUT OF THE BOX

WITTRA redefines the IoT landscape taking you directly to 'proof of value' with a predetermined ROI. Our unique pre-integrated, pre-tested and pre-secure Network Kits allow users to collect, communicate with and control their assets even in the toughest of environments. WITTRA brings IoT to the mass market.

WITTRA Network Kit is a wireless sensor network kit with a cloud-based API that can be deployed on a site to monitor objects and assets. The ruggedized kit, enables users to Connect, Sense and Locate their assets in the toughest environments. The use of sub-GHz frequency bands provides long transmission range and enables the signal to penetrate dense building infrastructure. With pre-certified hardware, the kit is secure, easy to deploy and ready for field deployment.

## STRAIGHT TO PROOF OF VALUE

The unique WITTRA approach to IoT implementation takes any IoT project straight to 'Proof of Value' and removes the uncertainty associated with the more traditional 'Proof of Concept' approach widely adopted. WITTRA accelerates and simplifies IoT delivering, predictable pricing and a predefined ROI, enhancing your revenues and improving time to market by removing the fragmentation and complexity of the more traditional ecosystem approach.

- ✔ Pre certified
- ✔ Ruggedized IP67
- ✔ Cloud API
- ✔ Plug and Play



**CONNECT**



**SENSE**



**LOCATE**



# WHAT'S IN THE BOX

The WITTRA Network Kit includes a cloud Gateway with cabled ethernet connectivity, IP67 Sensor Tags with a long-life rechargeable battery, and Mesh Routers to provide network connectivity. Delivered with a cloud-based API, assets such as industrial equipment, tools, vehicles and medical devices can be monitored to provide data on the asset location, movement, usage, temperature and much more. The sensor tags, mesh-routers and gateway operate in IP-based low-power wireless mesh networks based on 6LoWPAN, Internet Protocol version 6 (IPv6) over IEEE 802.15.4g in the Sub-GHz RF band.

## WITTRA GATEWAY

The self-contained cloud gateway with cabled ethernet connectivity can be deployed on heavy industrial sites to monitor assets through a cloud-based API. The Gateway includes a state-of-the-art 6LoWPAN border router that bridges the low power IP-based mesh wireless network to the internet for seamless connectivity. Fast to deploy and easy to use, the gateway delivers sensor and location data to the cloud service based on open and secured standards and protocols. Data is secured via HTTPS and DTLS.



## WITTRA SENSOR TAG

The compact, rugged sensor tag is sealed to IP67 and pre-certified, ready for field deployment. Including several integrated sensors, location functions and modern radio and communication technologies, the sensor tag delivers data to the cloud. The sensor tag also comes complete with accessories to make it easy to attach to your assets in both indoor and outdoor environments. The sensor tag will automatically connect to the low power, IP based wireless mesh network once it is registered in the user portal.

## WITTRA MESH-ROUTER

The mesh-router is the backbone component for message routing, providing a fixed node for routing sensor and positioning data to the Gateway. Network coverage can be scaled to suit any site by adding more mesh routers spread over a larger area, creating a multi-hop mesh network. The mesh is self-forming and self-healing, providing fault tolerance and redundant data pathways for maximum transmission reliability. Frequency Hopping provides resilience against interference and allows for coexistence with other users of the spectrum.



## WITTRA ACCESSORIES

The WITTRA Network Kit comes with a range of accessories including Velcro straps for mounting the mesh routers, power supplies, rechargeable batteries, USB supplies and reset plug. A mounting plate for the gateway is available on request.



## WITTRA CLOUD SERVICES

The cloud service enables configuration and management of your sensor tags and network, as well as an Application Programming Interface (API) to stream sensor data to third party applications. It is a single point collection of all data to reduce development costs, increase security and accelerate time to market. The cloud service is available 24/7, continuously upgraded, and automatically scales to meet your needs with built-in support for remote, secure software updates. The cloud service provides autonomous operation and data integrity protection. Easy to get started - just sign up and the cloud service is activated with provisioning and management functionality, documentation, support and user forum, dashboards and API for you to develop your own value-added software applications.

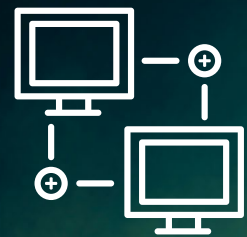


## DEPLOYMENT

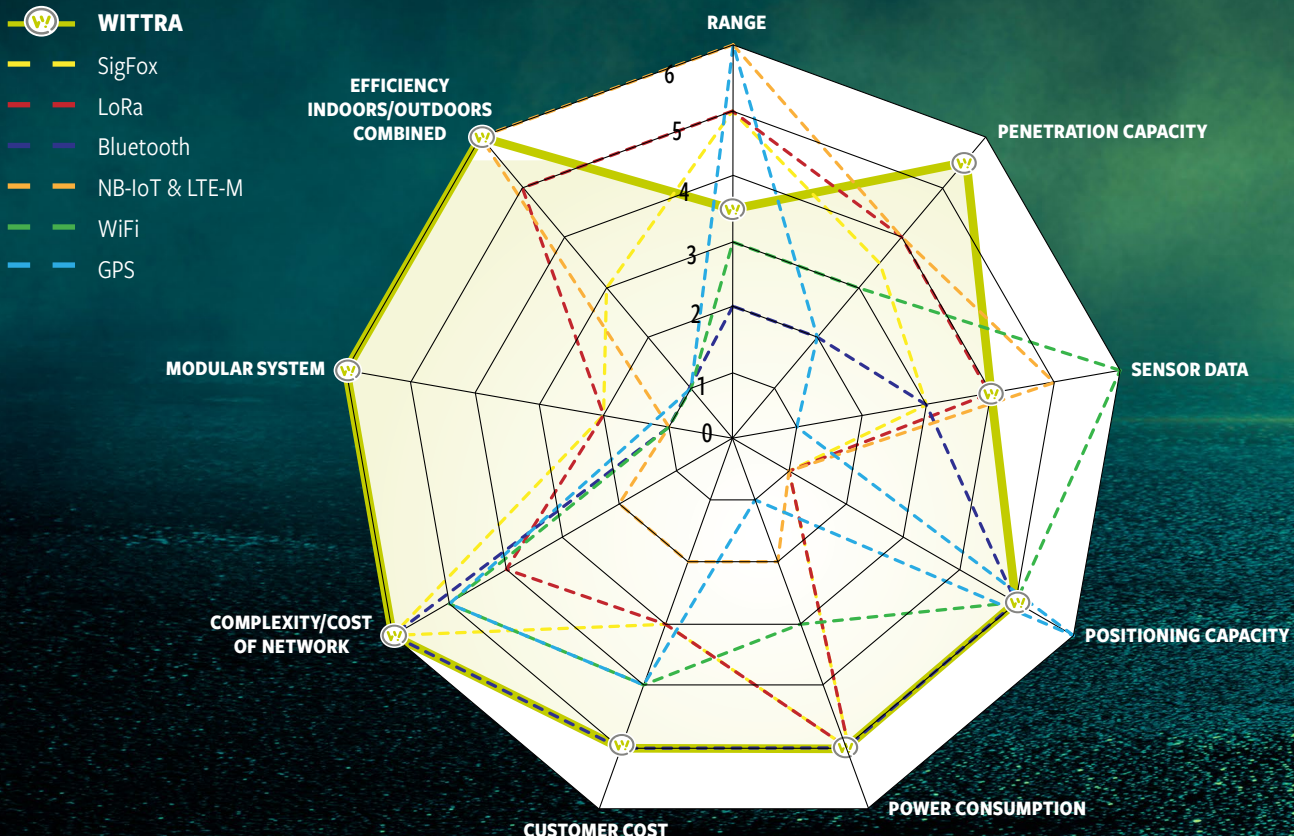
The WITTRA development platform simplifies device commissioning; the signal strength indicators ensure ease and speed of deployment whilst the WITTRA plug and play system allows for ease of network expansion. The WITTRA approach brings the benefits of IoT to the mass market delivering actionable intelligence.

## WITTRA ADD-ON'S

Future-proof by design; easily expandable the Wittra Network Kit is further enhanced by a range of additional products. Additional plug-in sensors and battery packs can easily be added to speed up time to market and increase values and functionality for customized sensor combinations and battery life. More details are available in the Wittra Accessories Guide which is available from [www.wittra.io](http://www.wittra.io)



# THE WITTRA DIFFERENCE



## WITTRA Sweden AB

Västra Järnvägsgatan 3 (9th Floor)  
111 64 Stockholm  
Sweden  
[www.wittra.io](http://www.wittra.io)