

LoRa[®]/IoT Module

THE LORA/IOT MODULE CONTAINS SPECIALIZED AREA STUDIES, ALONG WITH A FULL SUITE OF TOOLS FOR THE DESIGN OF LOW-POWER, WIDE AREA NETWORKS

LoRa provides many benefits for enterprise, municipalities and consumers worldwide. But these networks also present unique challenges in their design and deployment. SignalPro with the LoRa/IoT Module address these challenges by providing data rate analysis, coverage prediction, automatic hardware layout tools, report generation, channel planning and the ability to model mixed-area service area environments; streamlining system deployments.

LoRa System Studies

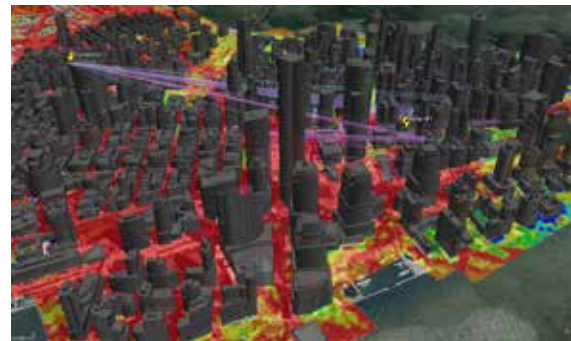
- Specialized area wide studies
- Best available LoRa downlink data
- Best available LoRa uplink data
- Number of servers above uplink
- LoRa optimized uplink transmit
- LoRa bidirectional margin

Autorouter

SignalPro with the LoRa/IoT Module automatically assigns the router site locations that will best serve the network. In using a tower/pole database, street vector data or a list of candidate locations then analyzing system parameters and service area factors, the software ensures a network meets performance and budgetary requirements.

Channel Planning

SignalPro assigns sectors and channels to meet performance requirements, traffic demand and booking criteria - ensuring robust systems that can be expanded upon in the future.



Multipoint

The multipoint feature set contains extensive studies for base stations serving many devices, each with independently defined RF parameters and geographic locations across a service area

- Display link path from CPE to hub with link study details
- Received signal levels downlink and uplink for each CPE
- Independent interference calculations for both uplink and downlink paths
- Much more...

Cirrus

Because LoRa network performance is greatly affected by the areas in which they are deployed, a detailed model of the service area is required for proper planning. EDX Cirrus is the high-resolution data subscription service that includes; 1m/30m hybrid clutter data, terrain, vector and demographic data. The service provides regularly updated data, ensuring users have the most current and accurate information available.