Siretta
Enabling Industrial IoT

Cellular analyser automates signal strength measurement for M2M/IoT

UK test equipment maker Siretta has launched a cellular analyser that can help boost the reliability of machine to machine (M2M) networks in the Internet of Things (IoT).

The SNYPER-LTE Graphyte enables users to log cellular signal strength over long periods of time to determine the most suitable mobile network operators (MNOs) for a particular location where cellular equipment will be deployed.

Many M2M and IoT applications use cellular networks for communication, with GSMA Intelligence forecasting almost a billion cellular connected devices by 2020. SNYPER-LTE Graphyte helps installation engineers and project managers to select the most reliable network for each location and to carry out all post-deployment analysis. Measuring cellular signal strengths over lengthy periods no longer requires anyone to be present, thanks to this sophisticated yet easy-to-use new signal analyser that can be left unattended after its initial set-up.

The SNYPER-LTE Graphyte measures signal strength for 2G, 3G and LTE networks, either individually or simultaneously. Another key feature of the SNYPER-LTE Graphyte is that it does not require a SIM to carry out cellular surveys, this being in difference to some of the existing SNYPER Family.

“The SNYPER-LTE Graphyte is the first of its kind to enable multiple surveys to be logged sequentially, automatically and unattended,” said Stephen Sydes, managing director at Siretta. “The SNYPER-LTE Graphyte allows the user to set up cellular signal strength logging, as a background task, for up to 500 surveys and up to a week’s worth of data, freeing them up to concentrate on other priorities. This has to have efficiency and productivity benefits for both the individual user and their companies.”

Survey results are saved automatically and at the end of the surveying period an overview is instantly available. Detailed and time-stamped logs of cellular signal strengths can be downloaded as required via the device’s built-in USB port for full analysis in standard spreadsheet or graphical HTML format. Depending on the user’s requirements, the multi-survey results (which are available in English, French, German, Italian, Spanish) can then be broken down by base station, mobile network operator (MNO) and network level. Selection of the most suitable MNO/MNO’s for a given location can be assisted through viewing information on the presence of each base-station(visibility), during the multiple surveying period, as well as via an MNO summary table showing the number of operator base-stations at defined signal level breaks.

In addition, the SNYPER-LTE Graphyte uses the SNYPER liveSCAN function for selecting individual cells/base-stations and producing a display trace on the device, and a time-stamped logging file that can be downloaded to a PC. This simplifies survey logging though easy-to-follow menus that enable users to set their survey criteria, including number of surveys and time intervals between them, with pre-set configurations.

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