Synchronization Support System for Telecommunication Networks

The Synchronization Support System (SWS) is a set of specialized devices and solutions developed at the Poznań University of Technology for generating, distributing, measuring, and assessing the quality of time and frequency signals in telecommunication networks.

The system includes time and frequency signal sources, distributors, and multichannel measurement systems. SWS solutions are based on proprietary fast synchronization methods and algorithms for determining the quality parameters of time and frequency signals in real time. The scope of work covers the full device development process – from hardware design and prototyping, through firmware and software, to the integration and customization of solutions to meet the requirements of other systems.

DST-16 – Intelligent Timing and Synchronization Signal Distributor

- The DST-16 is an intelligent distributor designed for the simultaneous delivery of in-phase timing and synchronization signals to multiple devices operating in a telecommunication network node.
- The device supports sinusoidal signals compliant with ITU-T G.703.13 and HDB-3 signals compliant with ITU-T G.703.9.
- Integrated diagnostic mechanisms enable the monitoring of device operation as well as the detection and signaling of incorrect input and output signal parameters.

