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.

STFS – Synchronized Time and Frequency Source

- The STFS is a specialized time and frequency source designed for telecommunication infrastructure.
- It provides eight in-phase 2048 kHz sinusoidal signals with parameters compliant with ITU-T G.703.13, and eight 2048 kbit/s HDB-3 signals compliant with ITU-T G.703.9.
- The device also provides time information, updated every second, and available locally as well as via a USB interface.

