

MODULAR SIGNAL SWITCHING UNIT

Orbis Systems Modular Signal Switching Unit (SSU)

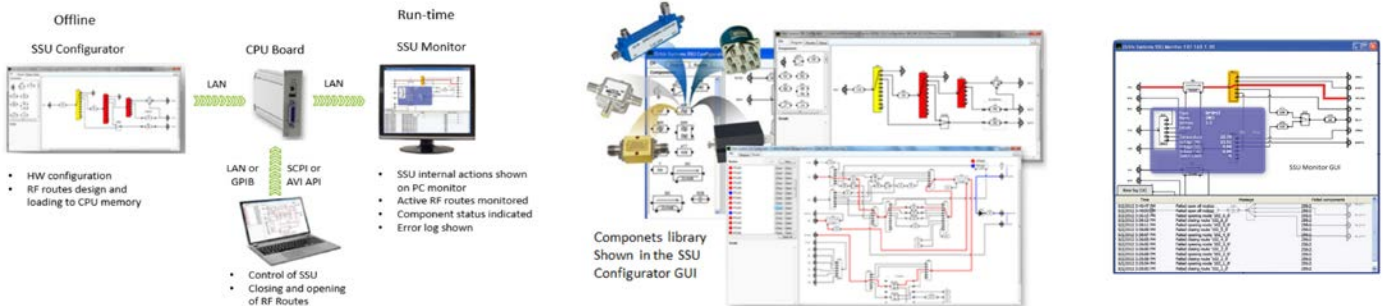


Controller Unit

Relay Module 4002207
1xSP8T relay

Relay Module 4001551
2xSP2T relays
1xSP6T terminated relay

Filter Bank



Modular RF SSU's SW Architecture in offline and run-time environment

RF Routes defined and simulated in the SSU Congurator GUI

Product Description

The Orbis Systems Signal Switching Unit (SSU) is a multi-purpose solution for testing base stations, wireless devices, specialized antenna systems and RF components. The SSU is used for RF signal routing between instruments and device(s) under test (DUT). The SSU enables multiple tests to be performed with the same setup removing the need for frequent connections and disconnections.

Modular RF consists of mechanical SSU cases, modules, filter banks and RF cables. Modules can be customized based on customer's needs and all modules can be re-used in other test configurations. Modular SSU offers best of both worlds: Choose either a complete solution or

create a sophisticated in-house solutions using standard cases and plug-in modules.

The Modular RF SSU comes with pre-installed software for testing purposes. Smart software and ready-made building blocks simplify creation of new test cases: only software reconfiguration or adding HW modules are needed.

Hardware

- RF SSU's hardware controller modules with main control module (CPU) and peripheral controller module (PIOMCU)
- Adapter Switches, DC switchboard for amplifiers
- RF switches, matrix switches, 10 MHz clock division unit

- Plug-in Modules (amplifier, couplers/dividers, filters)
- Filter banks

Interfaces

- GPIB, LAN connection
- SCPI or IVI API for communication between client's software and modular RF SSU

Software (Client Software)

- SSU configurator for HW configurations and components' RF connections and routes
- SSU Monitor for monitoring SSU HW & SW operation on PC monitor. It visualizes SSU's status, internal actions, error logs and the relay switch count defined in the SSU configurator.

Orbis Systems Oy is a Finnish-based strategic testing partner and test system supplier for telecommunications and electronics manufacturing industry. Our mission is to provide Testing Solutions for our customers to help them develop new technologies, secure quality and functionality of their products. We have extensive experience in global volume delivery and support.

To meet and exceed our customers' expectations, we solve complex technological challenges, deliver customized and innovative solutions to address their needs. We strive for building long-lasting relationships, being close to our customers and fostering open communication.

We will help you deliver on your 5G commitments.

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