

The Orbis Signal Switching Unit – SSU



Cost reductions by automated testing

The Signal Switching Unit can be customized to meet all your connection needs for entirely automated testing. Connections can be performed in one fully customized unit. Entirely automated SSU enables you to perform all your measurements efficiently and accurately with good repeatability. Various, earlier manually performed connections can be automated and this way the SSU saves you both time and money.

The SSU can be designed as a part of your Test and Measurement System or it can be one separate, stand-alone unit. The SSU is extremely practical in production use, or you can start to develop your test automation in your product development. The SSU is controlled by the test system SW or by the customer's own SW. Orbis can provide professional help to design your new fully automated test system.

Typical Applications for the SSU

- Passive or Active RF Component Test and Measurement solutions
- Unit or Module Test and Measurement solutions
- RF and Telecom Test and Measurement solutions
- Antenna Test and Measurement solutions
- EMI and EMC Test and Measurement solutions
- Base Station Test and Measurement solutions
- Mobile Phone Test and Measurement solutions

Typical Functions of the SSU

- RF route connections between your DUT and measuring instruments
- AF and DC route connections between your DUT and measuring instruments
- DAC, logic (I/O) control and measurement lines for Test System, Fixture and DUT
- AC and DC outputs

RF routes can include RF relays, different filters, circulators, combiners, directional couplers, low noise amplifiers, high power amplifiers etc. AF routes could include audio route switching components, different filters, low and high power amplifiers etc.

Mechanical construction

The SSU case is designed as 19" EMC case, with depth of 480 mm and possible height 2U, 3U, 4U, 5U, 6U, 8U, 10U (1U = 44,45 mm)

Technical characteristics

- Mains voltage 115.... 230 Vac
- Forced air cooling
- IEEE-488.1, IEEE-488.2, RS-232 control
- IEEE-488 status indication on Front panel
- Route connection indication on Front panel

