

Open Switch and Control Platform R&S®OSP

Modular solution for RF switch and control tasks



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ROHDE & SCHWARZ

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At a glance

The R&S®OSP is a modular platform designed to handle RF switch and control tasks.

A number of optional modules make the R&S®OSP ideally suited for a wide range of applications from simple RF switch functions to automatic path switchover in complex RF test systems such as EMC systems.

The R&S®OSP120 and R&S®OSP130 base units can be controlled via Ethernet. The R&S®OSP130 also has a display with a control panel. The individual switch and control modules of the R&S®OSP130 and of all connected R&S®OSP150 extension units can be manually operated using the control panel.

Benefits and key features

Modular, reliable, cost-efficient

The modularity provided by the R&S®OSP family helps ensure the fast setup of test and measurement configurations for applications in production, test labs and development departments. The ability to implement complex wiring by means of a single switch and control platform is an essential prerequisite for reliable and reproducible measurements that can be automated to enable cost-efficient test sequences.

Compact and flexible

The R&S®OSP units are accommodated in a compact 19" wide cabinet of two height units. The sophisticated CPU control functionality provides maximum flexibility for controlling switch and control modules and makes high-performance external interfaces available.

Powerful control and RF relay modules

The switch and control modules are inserted into the three rear module slots. The versatile 18 GHz or 40 GHz RF relay modules, 6 GHz semiconductor relay modules and digital input/output modules can be combined as required, allowing users to configure the R&S®OSP cost-efficiently according to the application at hand.

Special modules make it easier to implement different switch, input and output functions such as control of external power relays.

Expandability

Up to four R&S®OSP150 extension units can be connected via the CAN bus port of the base units. This allows the range of functions of the base units to be considerably expanded while also making it possible to economically meet increasing requirements at a later point in time.

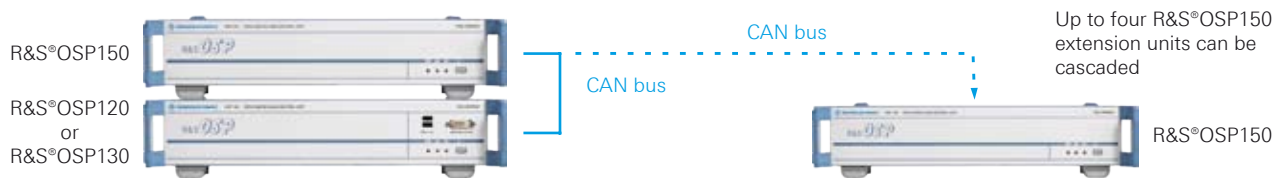
Easy control and system integration

All base units of the platform can be controlled via the Ethernet interface. This interface makes it possible to connect the platform directly to a PC, integrate it into test systems or remotely operate it via a corporate network.

Compared to the R&S®OSP120, the R&S®OSP130 also has a control panel with a keyboard for direct manual operation of the R&S®OSP130 and any extension units that are connected. Manual operation of the R&S®OSP120 is possible by connecting an external keyboard and a monitor. The supplied operating software or a web GUI can be used to control the switch and control modules easily and directly without special software knowledge.

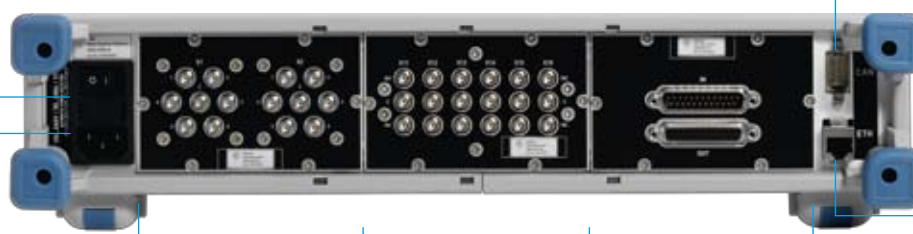
Of course, it is also possible to control the platform from application programs such as LabVIEW, LabWindows/CVI, Agilent VEE, C++, C#, Visual Basic, Visual Basic .NET, etc.

Combinations of the R&S®OSP120 or R&S®OSP130 with the R&S®OSP150



Power switch in addition to standby switch on front

Power supply 100 V to 240 V



3 module slots

CAN bus port for connection between base unit and extension unit

Ethernet interface for direct connection to a PC or for integration into an Ethernet network (not with the R&S®OSP150)

Ordering information

| Designation | Type | Order No. |
|---|--------------|--------------|
| Open Switch and Control Platform | | |
| Base Unit with Monitor Interface | R&S®OSP120 | 1505.3009K02 |
| Base Unit with Display and Control Panel | R&S®OSP130 | 1505.3009K03 |
| Extension Unit | R&S®OSP150 | 1505.3009K05 |
| Options | | |
| RF Switch Module, 6 × coaxial changeover relays (SPDT), 0 Hz to 18 GHz | R&S®OSP-B101 | 1505.5101.02 |
| RF Switch Module, 6 × coaxial changeover relays (SPDT), 0 Hz to 40 GHz | R&S®OSP-B111 | 1505.4605.02 |
| RF Switch Module, 2 × coaxial multiposition relays (SP6T), 0 Hz to 18 GHz | R&S®OSP-B102 | 1505.5201.02 |
| RF Switch Module, 2 × coaxial multiposition relays (SP6T), 0 Hz to 40 GHz | R&S®OSP-B112 | 1505.4611.02 |
| RF Switch Module, 6 × coaxial changeover relays (SPDT), SSR, 0 Hz to 6 GHz | R&S®OSP-B107 | 1505.5901.02 |
| RF Switch Module, 3 × SPDT (N), 0 Hz to 12 GHz, 3 × SPDT (BNC), 0 Hz to 900 MHz | R&S®OSP-B106 | 1505.5601.02 |
| Digital I/O Module, 16 × digital inputs, 16 × digital outputs | R&S®OSP-B103 | 1505.5301.02 |
| Relay Driver Module, control of four external RF power relays, digital inputs/outputs | R&S®OSP-B104 | 1505.5401.02 |
| Accessories | | |
| CAN Bus Cable, 0.5 m | R&S®OSP-Z101 | 1505.4505.02 |
| CAN Bus Cable, 5 m | R&S®OSP-Z102 | 1505.4511.02 |
| CAN Bus Y Cable, 0.5 m | R&S®OSP-Z103 | 1505.4528.02 |
| 19" Rack Adapter, 2 HU | R&S®ZZA-211 | 1096.3260.00 |

Your local Rohde & Schwarz expert will help you determine the optimum solution for your requirements and will be glad to provide you with a customized quotation. To find your nearest Rohde & Schwarz representative, visit

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For data sheet, see
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