R&S®OSP130 Open Switch and Control Platform

Base unit with display for RF switch and control tasks

At a glance

The R&S®OSP130 is a base unit of the modular RF switch and control platform. It can be controlled via Ethernet and is manually operable.

A number of optional modules make the R&S®OSP130 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.

Features and benefits

Modular, reliable, cost-efficient

The modularity of the R&S®OSP130 helps ensure the fast setup of test and measurement configurations for production as well as for test labs and development departments. An essential prerequisite for reliable and reproducible measurements is the ability to implement complex wiring by means of a single switch and control platform. By automating RF switch and control tasks, the R&S®OSP enables cost-efficient test sequences.

Compact and flexible

The R&S®OSP130 is accommodated in a 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 and 40 GHz RF relays and 16-bit input/output modules can be combined as required and enable you to configure the R&S®OSP130 cost-efficiently according to the application at hand.

Expandability

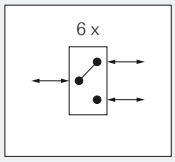
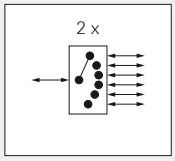
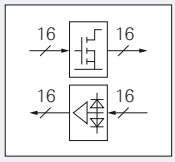
One or more R&S®OSP150 extension units can be connected via the CAN bus port of the R&S®OSP130. This allows the range of functions of the base unit to be considerably expanded and makes it possible to economically meet future requirements.

Easy control and system integration

The display plus the cursor keys enable direct manual operation of the R&S®OSP130 and the connected extension units. In addition, the R&S®OSP130 can also be controlled via the Ethernet interface. This interface makes it possible to connect the R&S®OSP130 directly to a PC, to integrate it into test systems or to remotely operate it via a corporate network. The operating software supplied or control via a web GUI enables you to control the switch and control modules easily and directly without special software knowledge. Of course, the unit can also be controlled from an application program via a VXI-11-compatible software interface.

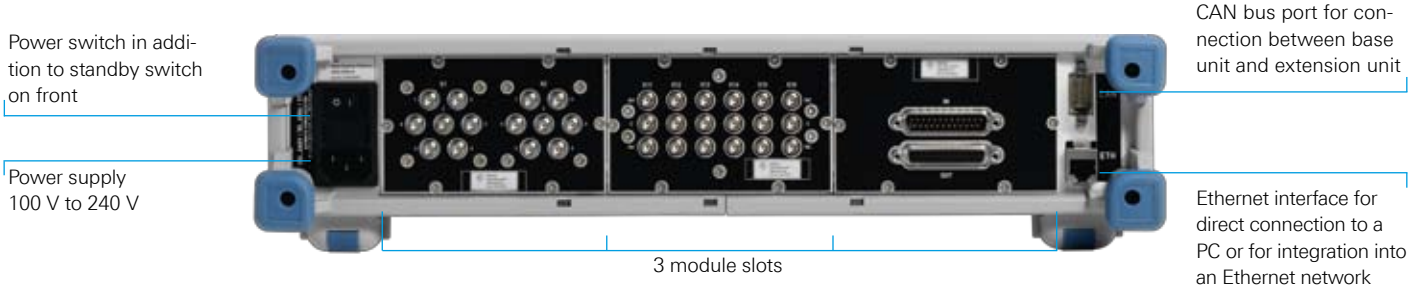
Ordering information

Overview of modules

Module	Function Specifications		Symbol	Connectors
R&S®OSP-B101/-B111	6 × coaxial changeover relays (SPDT)			
	connector type relay impedance frequency range R&S®OSP-B101 R&S®OSP-B111	SMA (female) 50 Ω 0 Hz to 18 GHz 0 Hz to 40 GHz		
R&S®OSP-B102/-B112	2 × coaxial multiposition relays (SP6T)			
	connector type relay impedance frequency range R&S®OSP-B102 R&S®OSP-B112	SMA (female) 50 Ω 0 Hz to 18 GHz 0 Hz to 40 GHz		
R&S®OSP-B103	16 × digital inputs/outputs			
	connector type (I/O) 16 digital input channels 16 digital output channels	25-contact D-Sub (male/female) 0 V to 3.3 V DC (LV-CMOS), max. 5.5 V open drain, max. 28 V DC, max. 100 mA		

Open Switch and Control Platform	Type	Order No.
Base Unit without Display and Control Panel	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	Type	Order No.
6 × Coaxial Changeover Relays (SPDT), 18 GHz	R&S®OSP-B101	1505.5101.02
2 × Coaxial Multiposition Relays (SP6T), 18 GHz	R&S®OSP-B102	1505.5201.02
16 × Digital Inputs/Outputs	R&S®OSP-B103	1505.5301.02
6 × Coaxial Changeover Relays (SPDT), 40 GHz	R&S®OSP-B111	1505.4605.02
2 × Coaxial Multiposition Relays (SP6T), 40 GHz	R&S®OSP-B112	1505.4611.02
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



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