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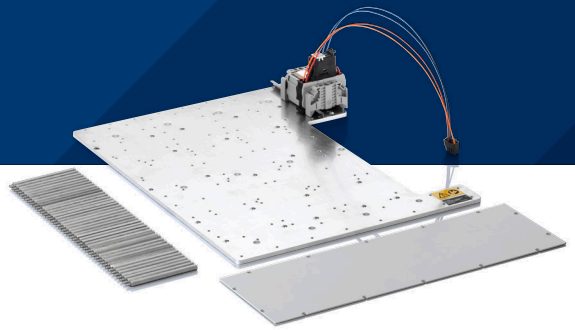
Make ideas real

R&S®OSP-BCST MODULE KIT FOR R&S®OSP320

Single-width modules, vertical orientation or horizontal orientation



Versatile off-the-shelf solution

The R&S®OSP-BCST module kit for the R&S®OSP320 consists of a front plate that allows the RF interface layout to be customized, a base plate for mounting, and a DC terminal block (+5 V and +27 V). Whether you are a seasoned RF engineer or a hobbyist who is planning to customize a switch solution, the R&S®OSP-BCST empowers you to do so. Based on the R&S®OSP320 open switch and control platform, it provides a great deal of flexibility and freedom to transform your switch design concept into reality.

A large range of RF modules up to 67 GHz is available for selection. Auxiliary components that are necessary for your RF design can be placed alongside the R&S®OSP RF modules for seamless integration. To further simplify integration and reduce complexity, available DC supplies can be tapped to power active components such as amplifiers without having to acquire external DC power supplies. The R&S®OSP-BCST module kit comes with a clear assembly guide to ensure hassle-free integration. At Rohde&Schwarz, we offer guidance on any aspect of operation, programming or applications from RF specialists who are passionate to help you achieve your goals, all the way from concept to completion.

The perfect choice for

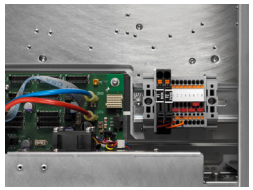
Aerospace and defense	Wireless and mobile communications
Industrial electronics, high-speed cable testing	Test houses and system integrators

Key specifications	
Base unit	R&S®OSP320 (mandatory)
Frequency range	dependent on selected R&S®OSP RF module(s)
Number of R&S®OSP RF modules supported	9 × single-width module, vertical orientation or 8 × single-width module, horizontal orientation
DC supply	+5 V and +27 V DC
Current rating	2 A
Remote control	via R&S®OSP320, Ethernet (RJ-45), SCPI
Dimensions (W × H × D, with R&S®OSP320)	444.7 mm × 152.05 mm × 471.9 mm; 1/1 19", 3 RU, depth: 425 mm (rackmount)

Your benefit	Features of the R&S®OSP-BCST
Unparalleled design freedom and flexibility	▶ Customize with confidence; backend operation based on R&S®OSP open switch and control platform ▶ Standard, easy to operate R&S®OSP web GUI for settings, operation, control and maintenance ▶ Better design and organization of cables with a front plate that enables the RF interface layout to be customized as required ▶ External auxiliary component matching your exact requirements can be meticulously selected and integrated
Streamlined integration	▶ Simplify by using existing standard R&S®OSP RF modules to ensure ease of integration ▶ Seamlessly incorporate third-party auxiliary active and/or passive components, reducing complexity and saving time ▶ Easy insertion of off-the-shelf DC-DC converter(s) with standard DIN rail mounting ▶ Cables used for interconnecting between RF modules are hidden within the unit
Versatile off-the-shelf solution, yet customizable to meet specific needs	▶ Based on standard R&S®OSP open switch and control platform ▶ Worldwide service network for standard components ▶ Reduces overall cost of customization – from design through development, testing, integration and maintenance ▶ R&S®OSP web GUI for control and operation (via LAN); lowers cost of integration and training

For options, prices and more information, visit
www.rohde-schwarz.com

Seamless integration even with third-party active/passive components



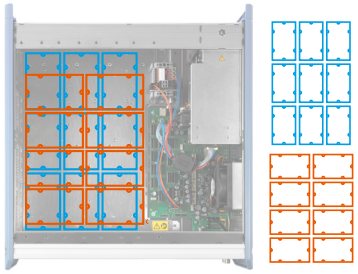
In any design where active components are used, DC power supplies are needed to power their operation.

With the R&S®OSP-BCST module kit, these components can be powered via the DC supplies, i.e. +5 V and +27 V DC, and ground ports for integration and operation. Should the active component require other DC voltages, e.g. +12 V, a DC-DC converter with DIN rail mounting can be attached to the DC terminal block. This eliminates the need for an additional external power supply.

Arrangement of switch modules in the R&S®OSP-BCST

Flexible and free to decide:

- Install up to nine modules in a 3 × 3 arrangement (blue) with each module in a front-to-rear orientation
- Install up to eight modules in a 2 × 4 arrangement (orange) with each module in a left-to-right orientation
- Mix and match

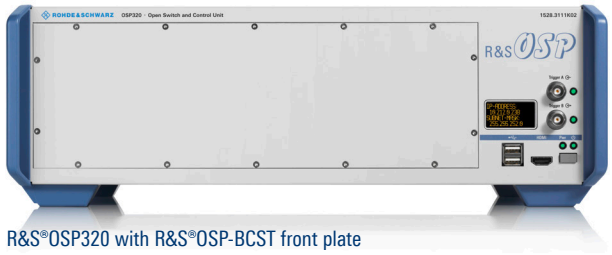


3 × 3 arrangement (blue),
2 × 4 arrangement (orange)

Mix and match

Feature highlights of the R&S®OSP-BCST

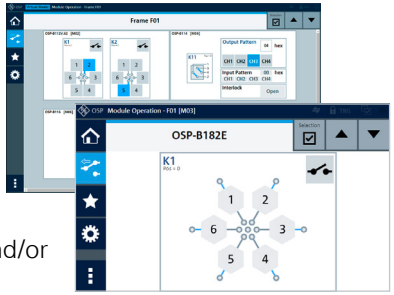
- Simple and modular in design
- Reduces overall complexity
- Tailors to exact requirements without limitations of off-the-shelf components
- Enables customization and improves organization of system components
- Easy control via R&S®OSP web GUI
- Powerful control and RF relay modules up to 67 GHz
- Automatic detection of R&S®OSP RF modules



R&S®OSP320 with R&S®OSP-BCST front plate

Easy to operate, configure, program and maintain

R&S®OSP web GUI delivered as standard

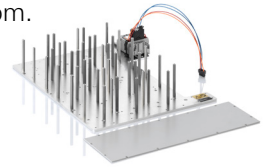


- Automatic detection of R&S®OSP RF modules
- Available even in virtual mode for system preparation and/or training purposes
- Easy to program, i.e. via SCPI or R&S®OSP web GUI

The cycle counter is a convenient switch counting feature (for coaxial relay/EMR) that helps users to monitor the relay and switching out to extend the lifespan.

R&S®OSP modules available in wide frequency range up to 67 GHz

Rohde&Schwarz offers a comprehensive selection of single-width R&S®OSP RF modules for customers to choose from.



The following module types are available:

- Universal electromechanical RF relay modules up to 67 GHz in different versions, i.e. with terminated and non-terminated, failsafe and latching relays, various relay arrangements from SPDT to SP8T
- Solid-state relay (SSR) modules up to 43.5 GHz in different versions
- Auxiliary modules and attenuator modules up to 40 GHz
- Digital I/O modules and multiplexer module

Ordering information

Designation	Type	Order No.
Module kit for R&S®OSP320 [1]	R&S®OSP-BCST	1528.3257.02
Supported R&S®OSP base unit		
R&S®OSP open switch and control platform, base unit, 3 RU	R&S®OSP320	1528.3111K02
Recommended extras		
19" rack adapter, 3 RU, for R&S®OSP320	R&S®ZZA-KNA31	1177.8032.00
For R&S®OSP RF module selection, see R&S®OSP product brochure (PD 5216.1340.12) and/or specifications (PD 5216.1340.22).		

[1] Available from Q1, 2025. For R&S®OSP320 with serial number ≥ 102000, R&S®OSP-BCST and R&S®OSP RF modules are not preinstalled, i.e. not mounted into the R&S®OSP320 base unit.

Rohde&Schwarz GmbH&Co. KG
www.rohde-schwarz.com | www.rohde-schwarz.com/support | www.training.rohde-schwarz.com

R&S®OSP-BCST module kit for R&S®OSP320
PD 3673.0828.32 | Version 01.00 | August 2024 (ch)
Data without tolerance limits is not binding | Subject to change