Высокопроизводительная система хранения данных SpycerBox Cell

R&S®SpycerBox Cell

R&S®SpycerBox Cell is a distinctive storage solution from Rohde&Schwarz that features high-density layout and redundant setup. Cascadable thanks to its unique SAS interconnection, the modular and scalable storage concept allows you to easily expand capacity and gain even higher performance as your workflow environment or storage requirements grow.

R&S®SpycerBox Cell is based on the idea of offering you all the assets of a powerful and compact storage solution in one unit. The 1 HU chassis provides reliable and easy-to-maintain production storage with maximum density and is equipped with an extensive configuration tool. Key features and facilities include:

- Central high-performance production storage
- Supports uncompressed and compressed formats up to 8K
- Modular storage concept addresses evolving storage demands
- Powerful combination of storage density and scalability
- Redundant concept with hot-swappable components
- Affordable pricing structures
- Extensive monitoring of entire infrastructure
- Low carbon footprint
- Available as an NL-SAS, SAS and SSD version
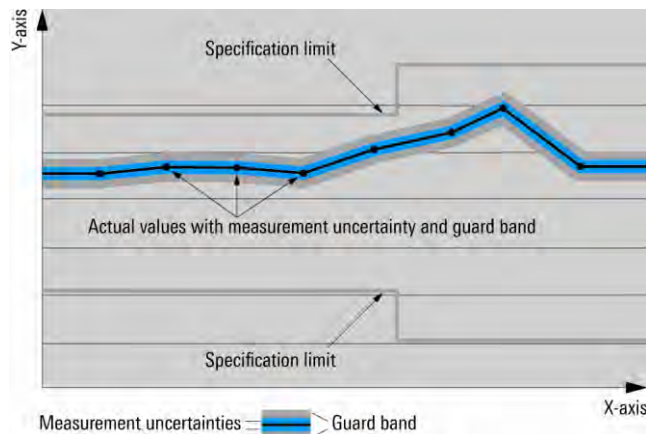
R&S®SpycerBox Cell
Specifications

Definitions

General
Product data applies under the following conditions:

- Three hours storage at ambient temperature followed by 30 minutes warm-up operation
- Specified environmental conditions met
- Recommended calibration interval adhered to
- All internal automatic adjustments performed, if applicable

Specifications with limits
Represent warranted product performance by means of a range of values for the specified parameter. These specifications are marked with limiting symbols such as <, ≤, >, ≥, ±, or descriptions such as maximum, limit of, minimum. Compliance is ensured by testing or is derived from the design. Test limits are narrowed by guard bands to take into account measurement uncertainties, drift and aging, if applicable.

Specifications without limits
Represent warranted product performance for the specified parameter. These specifications are not specially marked and represent values with no or negligible deviations from the given value (e.g. dimensions or resolution of a setting parameter). Compliance is ensured by design.

Typical data (typ.)
Characterizes product performance by means of representative information for the given parameter. When marked with <, > or as a range, it represents the performance met by approximately 80 % of the instruments at production time. Otherwise, it represents the mean value.

Nominal values (nom.)
Characterize product performance by means of a representative value for the given parameter (e.g. nominal impedance). In contrast to typical data, a statistical evaluation does not take place and the parameter is not tested during production.

Measured values (meas.)
Characterize expected product performance by means of measurement results gained from individual samples.

Uncertainties
Represent limits of measurement uncertainty for a given measurand. Uncertainty is defined with a coverage factor of 2 and has been calculated in line with the rules of the Guide to the Expression of Uncertainty in Measurement (GUM), taking into account environmental conditions, aging, wear and tear.

Device settings and GUI parameters are indicated as follows: "parameter: value".

Typical data as well as nominal and measured values are not warranted by Rohde & Schwarz.

At a glance

R&S®SpycerBox Cell is cascadable thanks to its unique SAS interconnection. The modular and scalable storage concept allows you to easily expand capacity and achieve even higher performance as your workflow environment or storage requirements grow.

R&S®SpycerBox Cell provides all the assets of a powerful and compact storage solution in a single unit. The 1 HU chassis offers reliable and easy-to-maintain production storage with maximum density.
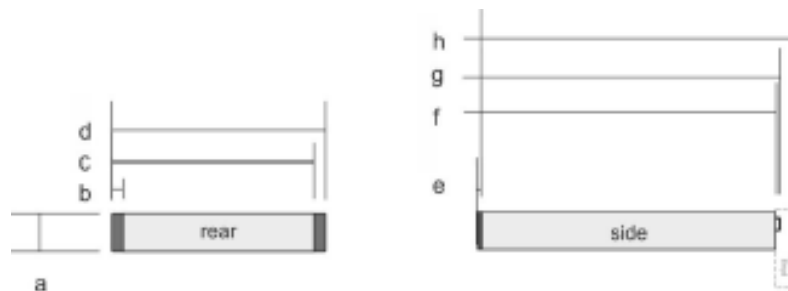
Key facts

- Central high-performance production storage
- Supports uncompressed and compressed formats up to 8K
- Modular storage concept addresses evolving storage demands
- Powerful combination of storage density and scalability
- Redundant concept with hot swappable components
- Low entry-level pricing
- Extensive monitoring of entire infrastructure
- Low carbon footprint
- Available as an SAS, NL SAS and SSD version
- SSD version for extreme performance

Specifications

System configuration	1 HU rackmount 30 top-mounted hot-swappable media hard drives 1+1 redundant back-mounted hot-swappable operating system hard drives 1+1 redundant hot-swappable power supply 1 × display port (rear) 1 × DVI (rear) 1 × 1 Gigabit Ethernet 2 USB 2.0 ports (rear) 2 USB 3.0 ports (rear) - CentOS 7.0

General data

Electrical data		
Input power requirements		100 V to 240 V AC at 47 Hz to 63 Hz
Power consumption	input power	max. 573 W, typ. 526 W
	idle power	478 W
Product conformity		
FCC rating		class A
CE marking		in line with: - EMC directive 2004/108/EC - low-voltage directive 2006/95/EC
Korea certification		in line with KC (Korea certification)
Dimensions and weight		
Dimensions (W × H × D)	incl. handles	438 mm × 44 mm × 964 mm (17.2 in × 1.7 in × 38.0 in)
Weight	chassis weight	approx. 22 kg (48.5 lb)
	chassis weight with maximum HDD drive configuration	approx. 28 kg (61.7 lb)

The figure shows the dimensions of the R&S®SpycerBox Cell.
The drawing includes space for connectors and plugs that can protrude from the rear
("plug safety", usually plus 150 mm). However, the amount of space depends on the type of connectors used.
a: 44 mm (1.7 in), b: 23 mm (0.9 in), c: 460 mm (18.1 in), d: 482 mm (19.0 in),
e: 15 mm (0.6 in), f: 924 mm (36.4 in), g: 951 mm (37.4 in), h: 1006 mm (39.6 in).

Ordering information

Designation	Type	Order No.
Base units		
R&S®SpycerBox Cell, 36 Tbyte (SAS), without file system	R&S®SBX	2902.1834.03
R&S®SpycerBox Cell, 54 Tbyte (SAS), without file system	R&S®SBX	2902.1834.08
R&S®SpycerBox Cell, 14.4 Tbyte (SSD), without file system	R&S®SBX	2902.1834.04
R&S®SpycerBox Cell, 28.8 Tbyte (SSD), without file system	R&S®SBX	2902.1834.06
R&S®SpycerBox Cell 57.6 Tbyte (SDD), without file system	R&S®SBX	2902.1834.09
R&S®SpycerBox Cell, 60 Tbyte (SAS 7k), without file system	R&S®SBX	2902.1834.07
Controller (mandatory)		
R&S®SpycerBox Cell Controller, 4 × 16 Gigabit Fiber Channel	R&S®SBX-B201	2900.7858.00
R&S®SpycerBox Cell Controller, 4 × 16 Gigabit Fiber Channel, 4 × 1 Gigabit Ethernet	R&S®SBX-B203	2900.7870.00
R&S®SpycerBox Cell Controller, 4 × 16 Gigabit Fiber Channel, 2 × 10 Gigabit Ethernet	R&S®SBX-B205	2900.7893.00
R&S®SpycerBox Cell Controller, 2 × 16 Gigabit Fiber Channel	R&S®SBX-B200	2900.7841.00
R&S®SpycerBox Cell Controller, 2 × 16 Gigabit Fiber Channel, 4 × 1 Gigabit Ethernet	R&S®SBX-B202	2900.7864.00
R&S®SpycerBox Cell Controller, 2 × 16 Gigabit Fiber Channel, 2 × 10 Gigabit Ethernet	R&S®SBX-B204	2900.7887.00
SpycerBox Cell Controller 2 × 40 Gigabit Ethernet / 2 × 10 Gigabit Ethernet	R&S®SBX-B206	2902.0050.03
Accessories		
R&S®SpycerBox SAN Accessory Kit	R&S®SBXZ2510	2900.2510.00
File system options		
SN5 Server License for Online < 150TB	SBX	2902.1240.00
SN5 Server License for Online > 150TB	SBX	2902.1257.00
GH SBX-K35 SFS Server LIC. 1CPU	SBX-K35	2902.2153.02

Service levels agreements

Designation	Type	Order No.
SLA Warranty Upgrade to Advanced	R&S®SWASBX	2902.2376.38
SLA Warranty Upgrade to Premium	R&S®SWPSBX	2902.2376.39
SLA Basic 1 Year	R&S®SB1SBX	2902.2376.02
SLA Basic 2 Years	R&S®SB2SBX	2902.2376.03
SLA Basic 3 Years	R&S®SB3SBX	2902.2376.04
SLA Basic Upgrade to Advanced	R&S®SBASBX	2902.2376.46
SLA Advanced 1 Year	R&S®SA1SBX	2902.2376.08
SLA Advanced 2 Years	R&S®SA2SBX	2902.2376.09
SLA Advanced 3 Years	R&S®SA3SBX	2902.2376.10
SLA Advanced Upgrade to Premium	R&S®SAPSBX	2902.2376.47
SLA Premium 1 Year	R&S®SP1SBX	2902.2376.14
SLA Premium 2 Years	R&S®SP2SBX	2902.2376.15
SLA Premium 3 Years	R&S®SP3SBX	2902.2376.16