# Rohde & Schwarz Finland Oy

**Demo Sales Campaign Catalog 2020** 





#### **Demo Sales Campaign Catalog 2020**

Are you considering buying T&M equipment? This could be your unique opportunity to save substantial amount of money without risk and without compromises. We have released a rich portfolio of exhibition and demonstration units for sale. Most units come with the same terms as new, i.e. calibrated and with warranty.

Check our Campaign Catalog. If you find a product you have been looking for, contact Rohde & Schwarz Finland (tel: +358 207 600 400, email: asiakaspalvelu@rohde-schwarz.com) to check availability. Orders will be accepted on first come-first served basis.

## We offer demo units within the following categories:

1.	Oscilloscopes	
2.	Probes and Scope Accessories	
 3.	Signal & Spectrum Analysis	
4.	Vector Network Analysis	
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Demo Sales Campaign will run until end of June 2020.



# 1. Oscilloscopes

1.1 R&S®RTA4004 oscilloscope 3 451,80 €



#### Key facts:

Bandwidth: 200 MHz. Upgradable up to 1 GHz.

Sample rate: up to 5 Gsample/sMemory depth: up to 1 Gsample

ADC resolution: 10-bit

Display: 10.1" capacitive touchscreen

#### Model:

Serial number: 101341

Warranty: Until Oct 2021.

1.2 R&S®RTB2004 oscilloscope 3 210,90 €



## Key facts:

Bandwidth: 300 MHz

Sample rate: up to 2.5 Gsample/s Memory depth: up to 20 Msample

ADC resolution: 10 bit

Display: 10.1" capacitive touchscreen

#### Model:

Serial number: 108765

#### Options included:

- R&S®RTB-B6 Arbitrary waveform generator Adds an 25 MHz signal generator and a 4-bit pattern generator to your R&S®RTB2000 oscilloscope
- R&S®RTB-B1 Mixed signal upgrade for non-MSO models, 300 MHz. Turns the R&S®RTB2000 oscilloscope into fast, precise and easy-to-use mixed signal oscilloscopes (MSO).
- R&S®RTB-B243 Bandwidth upgrade of the R&S®RTB2004 to 300 MHz bandwidth

Warranty: Until Feb 2022.



## 1.3 R&S®RTP084 oscilloscope

Contact R&S Finland to request a quotation



## Key facts:

- 4 channels, Bandwidth: 8 GHz
- Max. sample rate: 20 Gsample/s
- 50/200 MSa memory with 4/1 channels.
- All trigger events at full bandwidth
- Up to 16 bit resolution
- Compact and quiet
- Optionally: Max. memory depth: 2 Gsample.
- Optionally: Realtime deembedding

#### Model:

Serial number: 100970

#### Options included:

- R&S®RTP-Z1 Front cover for R&S®RTP (acc.)
- R&S®RTP-Z4 Transit case for R&S®RTP (acc.)
- R&S®RTP-B7 Differential 16 GHz pulse source for R&S®RTP High-Performance Oscilloscope
- R&S®RTP-B1 Mixed signal option
- R&S®RT-ZA17 Matched pair SMA cable for TDR measurement

Warranty: Until Aug 2021.



1.4

#### R&S®RTO2024 oscilloscope

24647,7 €

#### Key facts:

- 4 channels, Bandwidth: 2 GHz
- Max. sample rate: 10GSa/s per channel
- Sampling memory 50MSa per channel / max. 200MSa (1 channel. Optionally: Max. memory depth: 2 Gsample.
- All trigger events at full bandwidth
- Up to 16 bit resolution
- **Excellent** at both time domain and frequency domain testing needs. Optionally multi-channel spectrum analysis.

#### Model:

Serial number: 320083

#### Options included:

- R&S®RTP-Z1 Front cover
- R&S®RTO-B1 Mixed signal option
- RTO-B4 OCXO 10MHz
- RTO-B6 Arbitrary Waveform and Pattern Generator with 14 bit resolution, 2 analog channels, 8 digital channels, 100 MHz bandwidth, 40 MSa/Ch memory, 500 MSa/s sampling rate
- RTO-Z3 Soft case for RTO oscilloscopes and accessories

Warranty: Until Sept 2022.

1.5

#### R&S®RTO2064 oscilloscope

44517,55€



## Key facts:

- 4 channels, 6GHz bandwidth (2 channels), 4GHz (4 channels),
- Max. sample rate: 20GSa/s
- Sampling memory 50MSa per channel / max. 200MSa (1 channel. Optionally: Max. memory depth: 2 Gsample.
- All trigger events at full bandwidth
- Up to 16 bit resolution
- Excellent at both time domain and frequency domain testing needs. Optionally multi-channel spectrum analysis.

#### Model:

Serial number: 320051

#### Options included:

- R&S®RTP-Z1 Front cover
- R&S®RTO-B1 Mixed signal option
- RTO-B4 OCXO 10MHz
- RTO-B6 Arbitrary Waveform and Pattern Generator with 14 bit resolution, 2 analog channels, 8 digital channels, 100 MHz bandwidth, 40 MSa/Ch memory, 500 MSa/s sampling rate
- RTO-Z3 Soft case for RTO oscilloscopes and accessories

Warranty: Until Sept 2022.



# 2. Probes and Scope Accessories

2.1

# 65

R&S®HZ-15 Set of two passive E and three passive H near-field probes

865,00 €

Key facts:

- Special, electrically shielded magnetic field probes
  Probe tips adapted to near-field measurement
- High-resolution measurements
- Optional R&S®HZ-16 preamplifier available

Serial number: 101300

Warranty: 3 months.

2.2



R&S®HZ-16 Preamplifier

681,00€

Key facts:

Inserting the R&S®HZ-16 preamplifier between the near-field probe and the spectrum analyzer makes it easier to measure very weak high-frequency fields of up to 3 GHz, e.g. during the development of controller hardware.

Serial number: 100653

Warranty: 3 months.

2.3



R&S®RT-ZD20 Differential Probe, DC to 1.5 GHz.

3 745,25 € /pc.

Key facts:

The R&S RT-ZD20 is a differential probe with high input impedance. It is used for differential voltage measurements from DC to 1.5 GHz.

Serial number: 101546, 211894

Warranty: 12 months

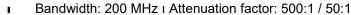
R&S Manufacturer Calibration included.



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## Key facts:

2 096,00 €



R&S®RT-ZHD16 high voltage differential probe

- Dyn. range (diff. input): ±1500 V / 150 V
- Max. input voltage to earth (each terminal): 1000 V CAT III, 1000 V (VRMS) / 6800 V (VPK)
- Differential offset: ±2000 V
- Diff. input impedance: 10 MΩ || 2 pF

#### Model:

Serial number: 101051

Warranty: 12 months.

#### 2.5

2.4

#### R&S®RT-ZS20 Active single-ended probe

#### Key facts:

- 1.5 GHz, single-ended active voltage probe, 1 MΩ, 0.8pF
- R&S®ProbeMeter
- Micro button for instrument control
- Rohde & Schwarz probe interface
- Attenuation factor 10:1

Warranty: 12 months

R&S Manufacturer Calibration included.

#### Model

Serial number: 101868 1 761,50 €
Serial number: 102422 2 256,50 €

## 2.6

#### R&S®RT-ZVC04A Multi-Channel Power Probe

4 295,75 € /pc.

#### Key facts:

- Up to 4 high-sensitivity voltage and current channels
- 18-bit ADC at 5 Msample/s (for each channel)
- 1 MHz bandwidth with flexible filtering options
- Several current ranges from 4.5 uA to 10 A with internal shunt
- Flexible connectivity options for every application

#### Model:

Serial number: 101124
Serial number: 101135

Warranty: 12 months.



# 3. Signal & Spectrum Analysis

3.1

#### R&S®FPL1007 Spectrum Analyzer

14 607,15 €



Key facts:

- Spectrum analyzer 5 kHz to 7,5 GHz
- -148 dBm to +30 dBm
- Resolution bandwidth 1 Hz to 10 MHz
- 10.1 in multi-touch screen
- Optionally highly accurate power measurement with power sensors and analysis of analog and digitally modulated signals, EMI measurements.

#### Model:

Serial number: 100686

#### Options included:

- R&S®FPL-B22 RF preamplifier
- R&S®FPL-B40 40 MHz analysis bandwidth

Warranty: Until April 2022.

3.2

#### R&S®FS-SNS40 Smart noise source

3 881,76 €

#### Key facts:

- Frequency range up to 40 GHz
- Supported by the R&S®FSW, R&S®FSV3000, R&S®FSVA3000 signal and spectrum analyzers and the R&S®FSWP phase noise analyzer and VCO tester
- Automatic loading of ENR table
- ENR uncertainty and reflection coefficients table for automatic uncertainty calculation
- Automatic temperature readout for improved accuracy

## Model:

Serial number: 114008

Warranty: 3 months.





#### 14 4 4

69 085,50 €



Frequency range from 10 Hz to 13.6 GHz

R&S®FSVA3013 Signal and Spectrum Analyzer

- Analysis bandwidth up to 400 MHz
- SSB phase noise at 10 kHz offset (1 GHz): -120 dBc/Hz
- GUI with multi-touch, SCPI recorder and event based actions
- Options available for analog and digital signal analysis, including 5G NR
- 10Gbit/s LAN interface for faster data transfer (option)

#### Model:

Serial number: 101200

#### Options included:

- R&S® FSV3-B4 OCXO, Precision frequency reference
- R&S® FSV3-B24 RF-Preamplifier, 30 dB, 10 MHz to 13.6 GHz
- R&S® FSV3-B114 Enhanced Computing Power
- R&S® FSV3-B400 400 MHz signal analysis bandwidth extension

Warranty: Until May 2022.

#### 3.4

3.3

#### R&S®FSVA3044 Signal and Spectrum Analyzer

81 118,13 €

#### Key facts:

- Frequency range from 10 Hz to 44 GHz
- Analysis bandwidth 200 MHz. Upgradable to 400 MHz.
- SSB phase noise at 10 kHz offset (1 GHz): -120 dBc/Hz
- GUI with multi-touch, SCPI recorder and event based actions
- Options available for analog and digital signal analysis, including 5G NR
- 10Gbit/s LAN interface for faster data transfer (option)

#### Model:

Serial number: 100821

#### Options included:

- R&S® FSV3-B1 Side carry handles
- R&S® FSV3-B200 200 MHz analysis bandwidth
- R&S® FSV3-B114 Enhanced computing power
- R&S® FSV3-B4 OCXO frequency reference
- R&S® FSV3-B24 RF preamplifier for 44 GHz models

Warranty: Until April 2022.



3.5

#### R&S®FSVA7 Signal and Spectrum Analyzer

32 824,00 €

#### Key facts:

- Frequency range up to 7 GHz
- Convenient, intuitive operation with touchscreen based user interface
- Upgradable up to 160 MHz signal analysis bandwidth
- Optionally general-purpose measurement applications for phase noise, noise figure, vector signal analysis, analog demodulation, EMI diagnostics
- Optionally wireless measurement applications for LTE (including LTE-Advanced), WLAN (including IEEE 802.11ac), WCDMA/HSPA+, TD-SCDMA, GSM/EDGE, CDMA2000®/1xEV-DO, Bluetooth®

#### Model:

Serial number: 101119

#### Options included:

- R&S®FSV-K10 GSM/EDGE/EDGE Evolution Analysis
- R&S®FSV-B18 Spare Solid State Disk (removable hard drive)
- R&S®FSV-B4 OCXO, Precision Reference Frequency Stability

Warranty: 12 months

R&S Manufacturer Calibration included.

#### R&S®FSW43 Signal and Spectrum Analyzer

Contact R&S Finland to request a quotation



3.6

#### Key facts:

- Unparalleled low phase noise and best sensitivity on the market
- 2 GHz internal analysis bandwidth, possibility to extend up to 5 GHz with R&S®RTO2064 oscilloscope
- SCPI recorder simplifies code generation
- New flat Windows 10 design and multitouch gesture support
- Options available for analog and digital signal analysis, including 5G NR

#### Model:

Serial number: 101401

#### Options included:

R&S® FSW-B2001 2000 MHz Analysis Bandwidth

Warranty: Until May 2022.



# 4. Vector Network Analysis

4.1

#### R&S®ZNA43 Vector Network Analyzer

Contact R&S Finland to request a quotation



Key facts:

- 10 MHz to 43.5 GHz
- 4 ports, 2.92 mm (m) connectors
- Four internal sources
- Excellent RF-performance
- Unique and intuitive touch-only operation

#### Model:

Serial number: 101236

#### Options included:

- R&S®ZNA-B91 Trigger and control I/O board (HW opt.)
- R&S®ZNA-B4 Precision frequency reference (HW opt.)
- R&S®ZNA-B26 Direct IF access
- R&S®ZNA43-B34 Receiver step attenuator for port 4
- R&S®ZNA43-B43 Internal pulse modulators for port 3
- R&S®ZNA43-B44 Internal pulse modulators for port 4
- R&S®ZNA43-B16 Direct source/receiver/access
- R&S®ZNA43-B21 Source step att., port 2, 70 dB
- R&S®ZNA43-B32 Receiver step att., port 2m 35 dB
- R&S®ZNA43-B42 Internal pulse modulator, port 2
- R&S®ZNA43-B41 Internal pulse modulator, port 1
- R&S®ZNA43-B3 3<sup>rd</sup> and 4<sup>th</sup> internal source
- R&S®ZNA43-B23 Source step attenuator for port 3
- R&S®ZNA-B5 2<sup>nd</sup> internal LO source

Warranty: Until November 2021.

4.2

## R&S®ZNB20 Vector Network Analyzer

62 625,75 €



- 4 ports, 100kHz 20GHz, PC3.5 connectors
- Wide dynamic range of up to 140 dB
- Short sweep times, e.g. 4 ms for 401 points
- High temperature stability of typ. 0.01 dB/°C

#### Model:

Serial number: 102062

#### Options included:

- R&S®ZNB20-B2 Second Internal Generator for Four-Port R&S®ZNB20
- R&S®ZNB20-B24 Extended Power Range for Four-Port R&S®ZNB20

Warranty: Until Feb 2022.



4.3

#### R&S®ZNL6 Vector Network and Spectrum Analyzer

29 930,50 €



Key facts:

- 3 instruments in 1: Vector network analysis, spectrum analysis and power meter
- Frequency range from 5 kHz to 6 GHz
- MultiView provides a convenient overview of all active modes
- Two-port vector network analyzer for bidirectional measurements
- Wide dynamic range of typ. 130 dB

#### Model:

Serial number: 101421

#### Options included:

- ZNL6-B1 Spectrum analysis function up to 6 GHz
- ZNL6-B31 Receiver step attenuator for R&S®ZNL6 port 1
- FPL1-B31 Li-Ion battery pack
- ZNL6-B22 Extended power range for R&S®ZNL6
- ZNL6-B32 Receiver step attenuator for R&S®ZNL6 port 2
- FPL1-B5 Additional interfaces
- FPL1-B10 GPIB interface
- FPL1-B4 OCXO accurate reference frequency
- FPL1-B30 DC Power supply for 12/24 V supply

Warranty: Until April 2021.



# Calibration Kits and Automatic Calibration Units

5.1

#### R&S®ZN-Z54 Automatic Calibration Units

15 050,00 €

#### Key facts:

- Calibration Unit 50 Ohms, 9 kHz to 40 GHz
- 2 ports, 2.92 mm (f) for R&S®ZVA/T, ZNB/T, ZNC, ZND, ZNL
- Virtually no warm up time required
- Auto-detection and USB control
- Multiport calibration supported



Serial number: 100872

Warranty: 12 months.

5.2

#### R&S®ZV-Z335 T-Checker

2 747,25 €

#### Key facts:

- Impedance: 50 Ω
- Frequency range: 45 MHz to 26.5 GHzConnector type: 3.5 mm, female and male
- Pin depth: 0 mm to 0.035 mm

#### Model:

Serial number: 100915

Warranty: 3 months.

5.3

#### R&S®ZV-Z370 T-Checker

2 466,75 €



- Impedance: 50 Ω
- Frequency range: 45 MHz to 18 GHz
- Connector type: type N, female and mal
- Pin depth: 5.22 mm to 5.26 mm (female),
  - 5.28 mm to 5.32 mm (male)

#### Model:

Serial number: 101063

Warranty: 3 months.





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#### R&S®ZV-Z52 Calibration unit

15 066,00 € /pc.

#### Key facts:

- Calibration unit, 10 MHz 24 GHz,
- 4 ports, 3.5mm (f)

#### Models:

Serial numbers: 100806, 100821

Warranty: 12 months.

5.5

5.4

## R&S®ZV-Z95 test port cables

2 986,50 € /pc.

#### Key facts:

- The R&S®ZV-Z9x test port cables are especially suited for precision measurements where high phase stability and high mechanical flexibility are required
- The R&S®ZV-Z9x test port cables are ideal for high-precision measurements in labs and production. Their rugged design offers superior magnitude and phase stability, allowing stable and accurate measurements with high repeatability.

#### Models:

Serial numbers: 100808, 100809, 100810, 100811

Warranty: 3 months.



# 6. Function & Signal Generators

6.1

#### R&S®SGS100A SGMA RF Source

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- Smallest fully integrated vector signal generator on the market, space-saving design for system integration
- Enables high throughput due to very short frequency and level setting times of typ. 280 μs via PCIe interface
- Excellent RF performance in a compact format
- Maximum output level of typ. +22 dBm for compensating losses in the setup
- Closed ALC loop for CW and I/Q modes for highest level repeatability
- High output frequency up to 12.75 GHz for broad applicability
- Wear-free electronic attenuator for high reliability
- Very cost-efficient with low initial costs and low cost of ownership

#### Model:

Key facts:

Serial number: 111060

#### Options Included:

- R&S®SGS-B106V 1 MHz to 6 GHz, I/Q (with vector modulation)
- R&S®SGS-B112V Frequency Extension to 12.75 GHz, CW
- R&S®SGS-B26 Electronic Step Attenuator

Warranty: Until November 2021.

22 572,00 €



#### 6.2



#### R&S®SMBV100B vector signal generator

#### Key facts:

- Frequency range from 8 kHz to 3 GHz. Upgradable with a license up to 6 GHz
- Ultra high output power up to +34 dBm
- Max. 500 MHz modulation bandwidth with perfect accuracy
- Ultra High Output Power options available
- Signal generation options available for all major digital communication standard incl. 5G NR, LTE and WLAN
- GNSS simulator options available for GPS, Glonass, Galileo, BeiDou and QZSS/SBAS

#### Model:

Serial numbers: 100884 & 100891 101304

22 275,00 € /pc. 19 849,50 €

#### Options included (100884 & 100891):

- R&S®SMBVB-B103 Frequency range 8 kHz to 3 GHz (HW opt.)
- R&S®SMBVB-B1H OCXO with high performance (HW opt.)
- R&S®SMBVB-B3 1GHz Reference input/output (HW opt.)
- R&S®SMBVB-B32 Ultra High Output Power (HW opt.)

#### Options included (101304):

- R&S®SMBVB-B103 Frequency range 8 kHz to 3 GHz (HW opt.)
- R&S®SMBVB-B1H OCXO with high performance (HW opt.)

#### Warranty:

100884 & 100891: Until July 2021. 101304: Until June 2022.



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6.3

#### R&S®SMW200A Vector Signal Generator

86 963,80 €

#### Key facts:

- Two channels up to 6 GHz and two wideband basebands with ARB
- Options available for all important digital communications standards
- Optional integrated fading simulator with up to 200 MHz bandwidth
- Support of all key MIMO modes including 3x3, 4x4, 8x4, 4x8 and 4x2x2

#### Model:

Serial number: 103877

#### Options included:

- R&S®SMW-B13XT Wideband baseband main module, two I/Q paths to RF
- R&S®SMW-B106 Frequency 6 GHz,1st path
- R&S®SMW-B206 Frequency 6 GHz, 2<sup>nd</sup> path
- R&S®SMW-B9 (x2) Wideband Baseband Generator with ARB
- R&S®SMW-B22 enhanced phase noise & FM/PhiM modulator

Warranty: Until February 2021.



## Power Sensors, Conducted and OTA

R&S®NRP18S Three-Path Diode Power Sensor

3 353,63 €



- 10 000 triggered measurements/s
- More than 50 000 readings/s
- Unprecedented measurement speed and accuracy even at low levels
- Ideal for universal applications
- Detachable cables for flexible operation

Serial number: 101588

Option included:

R&S®NRP-ZKU USB interface cable, length: 0.75 m

Warranty: Until February 2022.

R&S®NRP33S Three-Path Diode Power Sensor

4 384,88 €

Key facts:

10 000 triggered measurements/s

- More than 50 000 readings/s
- Unprecedented measurement speed and accuracy even at low levels
- Ideal for universal applications
- Detachable cables for flexible operation

Serial number: 101653

Option included:

R&S®NRP-ZKU USB interface cable, length: 0.75 m

Warranty: Until February 2021.



7.1





#### **Demo Sales Campaign Catalog 2020**

7.3

### R&S®NRQ6 Frequency Selective Power Sensor

11 962,50 €

#### Key facts:

- Frequency selective power measurements from 50 MHz to 6 GHz
- Power measurement range: -130 dBm to +20 dBm
- 100 MHz measurement bandwidth
- I/Q data capturing for RF vector signal analysis
- Phase coherent measurements for low-power modulated signals

Serial number: 101554

#### Option included:

R&S®NRQ6-K1 I/Q data interface

Warranty: Until November 2021.



## Wireless Device Testers

8.1

## CMW500 Wideband Radio Communication Tester, 4 TRX's

33 770,00 €/ pc.

#### Key facts:

- Wireless standards and broadcast technologies, e.g. LTE (incl. MIMO), WLAN, Bluetooth or DVB-T and associated inter-RAT messages
- All phases of development, verification and production
- Upgradable to support all protocol layers, from RF tests and protocol tests to end-to-end application tests, incl. NB-IoT
- Audio and Speech testing

#### Model

Serial number: 140414
Serial number: 140415
Serial number: 140416

#### Options Included:

- R&S®CMW-B100A Extra Baseband Measurement Unit, 1GByte
- R&S®CMW-B110A Baseband Generator, 1GByte memory, H110A (HW opt.)
- R&S®CMW-B400B Audio analyzer/generator
- R&S®CMW-B405A Speech Codec
- R&S®CMW-B450D Data Application Unit
- R&S®CMW-B500I Signaling Unit Advanced (SUA)
- R&S®CMW-B570B Extra RF Converter (TRX), H570B (hw opt.) x3
- R&S®CMW-B590D Extra RF Frontend, advanced functionality
- R&S®CMW-B612A IEEE Bus, one interface, H612A (hw opt.)
- R&S®CMW-B660H Option Carrier
- R&S®CMW-B661H Ethernet Switch
- R&S®CMW-B690B OCXO, high stability
- R&S®CMW-KB036 Extended frequency range, 3.3 GHz to 6 GHz, per TRX (SL)

Warranty: 12 months

R&S Manufacturer Calibration included.



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#### 8.2 R&S®CMW500 Wideband Radio Communication Tester

48 770,00 €/ pc.



Key facts

- Multi-RAT signaling: LTE, WCDMA, GSM, CDMA2000, 1xRTT/EV-DO, WLAN, Bluetooth
- LTE-Advanced: 8DL CC up to 4x4/8x2 MIMO fading, 2 UL CA
- WLAN 11 a / b / g / n / ac / ax SISO and MIMO signaling test
- All phases of development, verification and production
- Upgradable to support all protocol layers, from RF tests and protocol tests to end-to-end application tests.
- "5G ready" HW.

#### Model:

Serial number: 166525Serial number: 166526

#### Options included:

- R&S®CMW-S590D RF Frontend, advanced functionality, x2 pcs
- R&S®CMW-B540I Digital IQ Interface QUAD
- R&S®CMW-B554N Multi-CMW PCIe enabler,
- R&S®CMW-B570H RF Converter (TRX), 160 MHz, x4 pcs
- R&S®CMW-B620A Digital Video Interface (DVI)
- R&S®CMW-B661H Ethernet switch,
- R&S®CMW-B660H Option Carrier
- R&S®CMW-B500I Signaling Unit Advanced (SUA), x2 pcs
- R&S®CMW-B690B OCXO, high stability
- R&S®CMW-S100H Measurement Unit Advanced (MUA) with ARB Generator
- R&S®CMW-B450l Data Application Unit
- R&S®CMW-S052S Solid State Drive (SSD)

Warranty: 12 months

R&S Manufacturer Calibration included.



#### 8.3

#### R&S®CMX500 Radio Communication Tester

Contact R&S Finland to request a quotation



#### Key facts:

- 5G NR signaling test in sub-6 GHz (FR1). Upgradable to mmWave (FR2) frequency bands with RRH's.
- Support of Stand-alone mode / Non-Stand-alone mode
- Modern Web-Based User Interface for RF-, Functional-, Application- and Protocol test
- Modular and scalable HW-Architecture
- Upgrade your existing LTE setup by R&S®CMX500 5G signaling support

#### Model:

Serial number: 100196

#### 8.4

# R&S®CMW-Z10 RF Shield Box with R&S®CMW-Z11 Antenna Coupler

#### 2 855,00 €

#### Key facts:

- Frequency range up to 6 GHz
- Excellent shielding characteristics (< 80 dB)</li>
- Broadband spiral antenna allowing a wide variety of applications
- Optimized antenna structure for extremely good RF coupling
- Ergonomic closing mechanism I Sufficient space for tablets

#### Model:

Serial number: 103037

#### Options included:

- R&S®CMW-Z13 USB 2.0 Feedthrough
- R&S®CMW-Z15 Audio Measurement
- R&S®CMW-Z16 Second Antenna Element for diversity/MIMO measurements (requires R&S®CMW-Z14)
  R&S®CMW-Z11 Antenna coupler

Warranty: 3 months.

## 8.5

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#### R&S®CMW-Z24 Multibox RF set

1 450,00 €/pc.

#### Key facts:

RF connection set for multibox setups, providing two 4 way power splitter / combiner, 250 MHz to 6 GHz, 1HU

#### Model:

Serial numbers: 101147, 101435

Warranty: 3 months.



2 895,00 €

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# **Power Supplies**



9.1

Two-channel power supply, Voltage per channel: 0 V to 20 V

Max. current per channel: 6 A

Max. output power: 120 W total

R&S®NGL202 - Power Supply Series

- Electronic load (max. 20 V / 3 A)
- Load recovery time: < 30 µs
- Resolution up to 10  $\mu$ V / 10  $\mu$ A
- Ripple and noise: < 500 µVRMS / < 1 mARMS
- Sense, electronic fuse, FuseLink, QuickArb, logging

Serial number: 101527

#### Options included:

- R&S®NGL-K102 Wireless LAN remote control
- R&S®NGL-K103 Digital Trigger I/O
- R&S®NGL-B105 IEEE48 (GPIB) Interface

Warranty: Until Feb 2022.



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## 10. Terms and Conditions

**Delivery term**: CIP to address (INCOTERMS 2010).

**Delivery time**: 1-4 weeks.

**Warranty**: Specified on each article above. Warranty is not valid outside Finland.

**Payment**: 30 days net (subject to credit standing). VAT 0%.

Availability: Subject to prior sale (first come, first served).

**Restrictions:** All rights reserved for changes and errors.