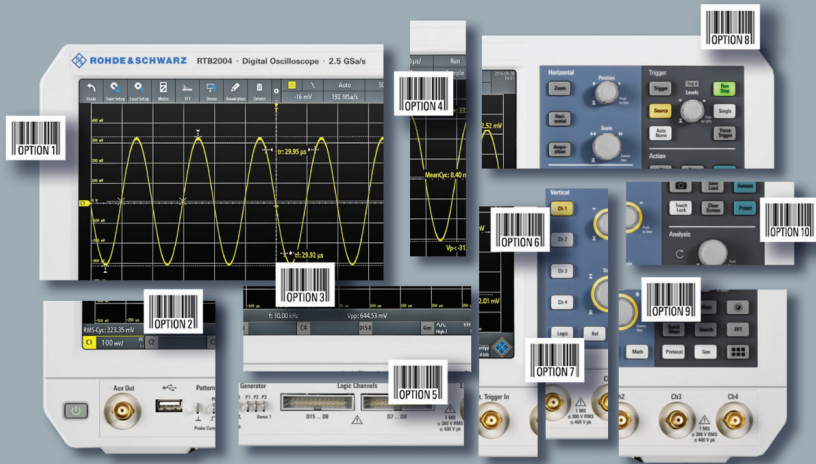


# THIS CHANGED EVERYTHING.

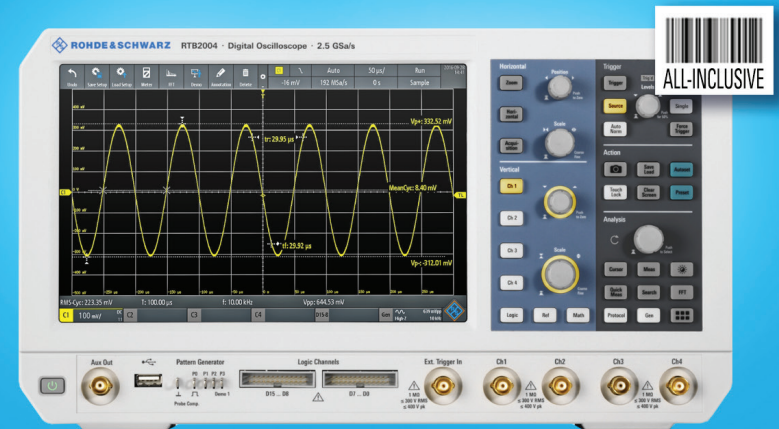
## COMPLETE SOLUTIONS FOR ONE PRICE.

Educators save an additional 20% plus a 5-year warranty on select instruments.

### That was then.



### This is now.



See savings: [askanengineer.us/change-everything](http://askanengineer.us/change-everything)

**ROHDE & SCHWARZ**

Make ideas real



# SAVE MORE THAN \$22,000 ON FULL-SOLUTION INSTRUMENTS.

## Invest in Rohde & Schwarz

Benefit from Rohde & Schwarz' quality and German engineering while getting all the bandwidth, channels, memory, spectrum measurements and signal generation you may ever need....at an unrivaled package price. For a limited time Rohde & Schwarz is offering a selection of entry-level instruments, fully equipped with all options at an unrivaled package price.

## All the Upgrades Up Front

Gone are the days of keycode upgrades or waiting on your new option, as your curriculum needs change. Now, get solution packages with fully loaded instruments from the start for long-term viability.

## Lower pricing

No more adding as you go or being at the mercy of a manufacturer's "future pricing". Save more than \$22,000 of list prices on complete solutions.

## Build your Bench

Maximize your classroom's bench performance and prepare your students for every day applications like EMI debug, power integrity, battery testing, channel power and low speed serial with the following instruments:

## Special Education Discount

Educators get an additional 20% off plus a 5-year warranty on select products for a limited time.\*

## Oscilloscopes:

- Performance: Bandwidths up to 2 GHz
- Channels: Up to 4 analog/16 digital (MSO)
- Up to 10.1" WXGA Touchscreen Display
- Sample Rate: Up to 5 Gsample/s
- Memory: Up to 1 Gsample segmented memory
- Up to 10-bit ADC

## (Handheld) Spectrum and Cable & Antenna Analyzers

- Frequency Range: 5 kHz to 4 GHz
- DANL: < -165 dBm typ.
- Phase Noise (f = 500 MHz, 100 kHz offset): < -105 dBc/Hz (typ.)
- Portability: lightweight and battery lasts for a day's work
- User experience redefined thanks to multitouch interface

## Power Supplies

- Channel count: Up to 4
- Electrically Equivalent Channels
- Max Voltage: 4x32 V/channel
- Max Current: 10 A/channel
- Max Power: 384 W

## Power Analyzer

- Analog bandwidth: DC to 100 kHz
- Sampling rate: 500 ksample/s
- Power measurement range: 50uW to 12 kW

## Signal Generator

- Frequency range 9 kHz to 3.2 GHz
- Maximum output level of typ. > +17 dBm
- Optional high-stability reference oscillator
- Analog modulation modes (AM/FM/φM/pulse) integrated as standard

# TAKE ADVANTAGE OF THIS EDU OFFER, NOW THROUGH JUNE 30, 2020.



## R&S®RTB2000 OSCILLOSCOPE

- ▶ Bandwidth: 300 MHz
- ▶ Up to 160 Msample memory
- ▶ 10-bit ADC
- ▶ 10.1" Touch Display
- ▶ I<sup>2</sup>C/SPI, UART, CAN/LIN plus much more
- ▶ **5-year warranty at no additional cost for educators\***

**Savings up to \$3,535**



## R&S®RTM3000 OSCILLOSCOPE

- ▶ Bandwidth: 1 GHz
- ▶ Up to 400 Msample memory
- ▶ 10-bit ADC
- ▶ 10.1" Touch Display
- ▶ I<sup>2</sup>C/SPI, UART, CAN/LIN plus much more

**Savings up to \$11,495**



## R&S®RTA4000 OSCILLOSCOPE

- ▶ Bandwidth: 1 GHz
- ▶ Up to 1,000 Msample memory
- ▶ I<sup>2</sup>C/SPI, UART, CAN/LIN plus much more
- ▶ 10-bit ADC
- ▶ 10.1" Touch Display

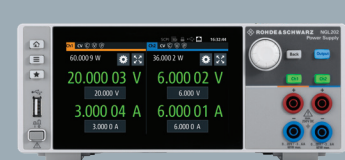
**Savings up to \$12,930**



## R&S®RTE1000 OSCILLOSCOPE

- ▶ Bandwidth: Up to 2 GHz
- ▶ Up to 200 Msample
- ▶ 16-bit vertical resolution
- ▶ 16 digital channels

**Savings up to \$22,810**



## R&S®NGL200 POWER SUPPLY SERIES

- ▶ 2 channels
- ▶ 0x20V
- ▶ Power: 120 W
- ▶ Wifi for remote control

**Savings up to \$1,255**



## R&S®RTH1000 SCOPE RIDER

- ▶ Bandwidth: 500 MHz
- ▶ Up to 25 Msample memory
- ▶ I<sup>2</sup>C/SPI, UART, CAN/LIN plus much more
- ▶ 10-bit ADC
- ▶ 7" Touch Display

**Savings up to \$6,080**



## R&S®FPC1500 SPECTRUM ANALYZER

- ▶ Frequency range: Up to 3 GHz
- ▶ Preamplifier
- ▶ Spectrum Analyzer, Tracking Generator, VNA, Sig Gen
- ▶ Modulation analysis plus more
- ▶ **5-year warranty at no additional cost for educators\***

**Savings up to \$3,640**



## R&S®SMC100A SIGNAL GENERATOR

- ▶ Frequency range: Up to 3.2 GHz
- ▶ >+17 dBm
- ▶ High stability reference oscillator

**Savings up to \$2,574**



## R&S®NGE100B POWER SUPPLY

- ▶ 3 Channels
- ▶ 3x32V
- ▶ Power: 100W
- ▶ WiFi for remote control
- ▶ **5-year warranty at no additional cost for educators\***

**Savings up to \$644**



## R&S®FPH SPECTRUM RIDER

- ▶ Handheld spectrum analyzer
- ▶ -163 dBm displayed average noise level
- ▶ 6-hour battery

**Savings up to \$8,425**

Oscilloscopes

Name	Bandwidth	Channels	Option Packages	US List Price	Discount	EDU Promo Price
R&S®RTC1K-COM2	300 MHz	2 analog / 8 digital	AWG, MSO, I²C, SPI, UART/RS-232/RS-422/RS-485, CAN/LIN	\$2,925	69%	\$1,192
R&S®RTB2K-COM4	300 MHz	4 analog / 16 digital	AWG, MSO, I²C, SPI, UART/RS-232/RS-422/RS-485, CAN/LIN, frequency response analysis, history and segmented memory, educators receive a 5 year warranty*	\$6,495	63%	\$2,960
R&S®RTM-COM4US	1 GHz	4 analog / 16 digital	AWG, MSO, I²C, SPI, UART/RS-232/RS-422/RS-485, I2S LJ/RJ/TDM, MIL-1553, ARINC 429, CAN/LIN, power analysis, frequency response analysis, history and segmented memory, spectrum analysis	\$19,415	69%	\$7,920
R&S®RTA-COM4US	1 GHz	4 analog / 16 digital	AWG, MSO, I²C, SPI, UART/RS-232/RS-422/RS-485, I2S LJ/RJ/TDM, MIL-1553, ARINC 429, CAN/LIN, power analysis, frequency response analysis, history and segmented memory, spectrum analysis	\$23,530	69%	\$9,600
R&S®RTE-COM4	2 GHz	4 analog / 16 digital	MSO, I²C, SPI, UART/RS-232/RS-422/RS-485, CAN/LIN, CAN-FD, CXPI, Flex-Ray, SENT, I2S, MIL-1553, ARINC 429, space wire, MIPI RFFE, custom decode, MDIO, USB1.0/1.1/2.0/HSIC, high definition 16-bit resolution, power analysis, spectrum analysis, ethernet 100 BASE-T1, bus measurements	\$38,530	69%	\$15,720
R&S®RTH-COM4US	500 MHz	4 analog / 8 digital	MSO, I²C, SPI, UART/RS-232/RS-422/RS-485, CAN/LIN, CAN-FD, SENT, spectrum analysis, frequency counter, advanced trigger, harmonic analysis, wireless LAN, remote control, history and segmented memory	\$12,880	54%	\$6,800

Spectrum and Antenna Analyzers

Name	Frequency Range	Phase Noise f=500 MHz, 100 kHz offset	Option Packages	US List Price	Discount	EDU Promo Price
R&S®FPC-COM1	5 kHz to 3 GHz	< -103 dBc/Hz (typ.)	Preamplifier, frequency extension, modulation analysis, receiver mode, advanced measurements, educators receive a 5 year warranty*	\$6,440	66%	\$2,800
R&S®FPC-COM2	5 kHz to 3 GHz	< -103 dBc/Hz (typ.)	Tracking generator, VNA, signal generator, preamplifier, frequency extension, modulation analysis, receiver mode, advanced measurements, educators receive a 5 year warranty*	\$8,475	61%	\$4,000
R&S®FPH-COM1	5 kHz to 4 GHz	< -105 dBc/Hz (typ.)	Preamplifier, frequency extension, modulation analysis, power sensor support, interference analysis, signal strength mapping, channel power meter, pulse measurements with power sensor, receiver mode	\$14,425	68%	\$6,000
R&S®ZPH-COM1	2 MHz to 4 GHz	< -105 dBc/Hz (typ.)	Frequency extension, GPS support, power sensor support, channel power meter, pulse measurements with power sensor	\$8,175	68%	\$3,400
R&S®ZPH-COM2	2 MHz to 4 GHz	< -105 dBc/Hz (typ.)	Preamplifier, frequency extension, spectrum analysis, modulation analysis, power sensor support, interference analysis, signal strength mapping, channel power meter, pulse measurements with power sensor	\$16,840	68%	\$7,004

Power Supplies

Name	Output Channels	Max. output power	Option Packages	US List Price	Discount	EDU Promo Price
R&S®NGE-COM3a	3	100 W	Ethernet remote control, wireless LAN remote control, digital I/O trigger, educators receive a 5 year warranty*	\$1,640	44%	\$996
R&S®NGL-COM2a	2	120 W	Wireless LAN remote control, digital I/O trigger	\$4,355	31%	\$3,100
R&S®NGM-COM2a	2	120 W	Wireless LAN remote control, digital I/O trigger, digital voltmeter functionality, battery simulation	\$7,915	32%	\$5,572
R&S®HMP4040	4	384 W		\$2,700	25%	\$2,052

Power Analyzer

Name	Basic Accuracy	Measurement Range	Option Packages	US List Price	Discount	EDU Promo Price
R&S®HMC8015COM	0.05%	50 µW to 12kW	Advanced analysis, advanced I/O, compliance tests	\$3,785	54%	\$1,996

Signal Generator

Name	Frequency Range	Output power	Option Packages	US List Price	Discount	EDU Promo Price
R&S®SMC100AP31	9 kHz to 3.2 GHz	> + 13 dBm	OCXO reference oscillator	\$9,190	30%	\$6,616

Terms & Conditions:

This offer is good for qualifying orders placed January 1, 2020 - June 30, 2020. Rohde & Schwarz reserves the right to cancel this program at any time by posting changes on rohde-schwarz.com. Offer valid worldwide. Contact a Rohde & Schwarz representative for complete details. All other promotions and discounts cannot be combined. Full list of terms and conditions can be viewed at askanengineer.us/change-everything.

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\*5-year warranty available March 1 - July 31, 2020 for EDU customers only. Available in the U.S. and Canada.