

# R&S® ADD011SR SUPER-RESOLUTION HF DIRECTION FINDING ANTENNA

Product Brochure  
Version 01.00

**ROHDE & SCHWARZ**

Make ideas real



# AT A GLANCE

R&S®ADDx multichannel DF antennas are vital to Rohde & Schwarz direction finder performance. The technology is based on over 50 years of experience in developing DF antennas with superior sensitivity and accuracy.

The R&S®ADD011SR super-resolution HF DF antenna is optimized for radiolocation from fixed spectrum monitoring and COMINT/CESM stations. It is designed for operation with R&S®DDF550 and R&S®DDF5GTS multichannel direction finders and can receive sky and ground waves.

The R&S®ADD011SR is ready for the super-resolution DF method that can take bearings on multiple co-channel signals and can separate the signals.

R&S®ADD011SR performance is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

## KEY FACTS

- ▶ Frequency range from 300 kHz to 30 MHz
- ▶ Superior system DF accuracy
- ▶ Antenna elements with active/passive switchover to adapt to signal environments
- ▶ Elevation measurement for single station location (SSL) (optional)
- ▶ Ready for super-resolution DF method

The photo on cover page shows a similar HF direction finding antenna.

# SPECIFICATIONS IN BRIEF

Specifications in brief		
Frequency range <sup>1)</sup>		300 kHz to 30 MHz
DF method		correlative interferometer, ready for super-resolution method
Polarization	switchable	vertical, horizontal, circular
System DF accuracy <sup>2)</sup>	one antenna array, Ø = 100 m or 50 m	1° RMS
	two antenna arrays, Ø = 150 m	0.5° RMS
Antenna element design		active antenna elements with active/passive switch
Dimensions	crossed-loop antenna with lightning rod (L x W x H)	approx. 2.9 m x 2.9 m x 3.5 m (9.51 ft x 9.51 ft x 11.48 ft)
Weight	crossed-loop antenna with tripod	approx. 34 kg (74.96 lb)
	antenna network	approx. 22 kg (48.50 lb)

<sup>1)</sup> For model .2x: below 1 MHz restricted DF accuracy and sensitivity

<sup>2)</sup> Measurement in reflection-free environment. The RMS error is calculated from the bearings of evenly distributed samples versus azimuth and frequency.

# ORDERING INFORMATION

Description	Type	Order No.
<b>Antennas</b>		
Super-resolution HF DF antenna, Ø 50 m (one antenna array), color: light ivory	R&S®ADD011SR	4078.0004.22
Super-resolution HF DF antenna, Ø 50 m (one antenna array), color: bronze green	R&S®ADD011SR	4078.0004.25
Super-resolution HF DF antenna, Ø 100 m (one antenna array), color: light ivory	R&S®ADD011SR	4078.0004.02
Super-resolution HF DF antenna, Ø 100 m (one antenna array), color: bronze green	R&S®ADD011SR	4078.0004.05
Super-resolution HF DF antenna, Ø 150 m (two antenna arrays), color: light ivory	R&S®ADD011SR	4078.0004.12
Super-resolution HF DF antenna, Ø 150 m (two antenna arrays), color: bronze green	R&S®ADD011SR	4078.0004.15

Service options		
Extended warranty, one year	R&S®WE1	Contact your local Rohde&Schwarz sales office.
Extended warranty, two years	R&S®WE2	
Extended warranty, three years	R&S®WE3	
Extended warranty, four years	R&S®WE4	

## Service at Rohde & Schwarz You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

## Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)

## Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management  
**ISO 9001**

Certified Environmental Management  
**ISO 14001**

## Rohde & Schwarz training

[www.training.rohde-schwarz.com](http://www.training.rohde-schwarz.com)

## Rohde & Schwarz customer support

[www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support)

