

R&S® ADD078SR SUPER-RESOLUTION UHF/SHF DF 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.

R&S®ADD078SR super-resolution UHF/SHF DF antenna is optimized for radiolocation from fixed, mobile and transportable spectrum monitoring stations and COMINT/ CESM platforms. It is designed for operation with Rohde & Schwarz multichannel direction finders and features integrated lightning protection that does not affect performance. The optional R&S®ADD07X-LR lightning rod is available. R&S®ADD078SR is prepared for the super-resolution DF method.

The performance of the R&S®ADD078SR is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

The R&S®ADD078SR can be installed on top of another DF antenna with the R&S®ADD07XT mast adapter.

The R&S®ADD078SR can be installed on a mast with the R&S®ADD07XZB mast adapter and used with the R&S®ADD1XTP tripod with adapter.

The R&S®IN061 power supply is required for antenna cables longer than 31 m.

KEY FACTS

- ▶ Frequency range from 1.3 GHz to 6 GHz
- ▶ Superior system DF accuracy
- ▶ Prepared for the super-resolution DF method
- ▶ Integrated lightning protection that does not affect performance
- ▶ In line with all relevant ITU recommendations

SPECIFICATIONS IN BRIEF

Specifications in brief		
Frequency range		1.3 GHz to 6 GHz
Polarization		vertical
System DF accuracy	with installed lightning protection, in line with Recommendation ITU-R SM.2060	
	1.3 GHz to 3.1 GHz	0.8° RMS (typ.)
	3.1 GHz to 6.0 GHz	1.7° RMS (typ.)
Antenna element design	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 3.2.4.1	passive
Lightning protection	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 2.6.2.4.6	lightning rod mounted vertically above the antenna system
Dimensions	Ø × H, without lightning rod	approx. 0.34 m × 0.41 m (1.11 ft × 1.35 ft)
Weight	without ice deposit, with lightning protection rod	approx. 14 kg (30.86 lb)

ORDERING INFORMATION

Description	Type	Order No.
Antenna		
UHF/SHF DF antenna, color: light ivory	R&S®ADD078SR	4098.4005.02
UHF/SHF DF antenna, color: yellow olive	R&S®ADD078SR	4098.4005.03
UHF/SHF DF antenna, color: squirrel grey	R&S®ADD078SR	4098.4005.04
UHF/SHF DF antenna, color: bronze green	R&S®ADD078SR	4098.4005.05
Accessories		
Adapter for masts		
Mast adapter, bottom	R&S®ADD07XZB	4069.7300.02
Mast adapter, top	R&S®ADD07XZT	4069.7200.02
Lightning protection		
Extended lightning protection	R&S®ADD07X-LR	4098.4505.02
Power supply		
Power supply	R&S®IN061	4041.9508.02
Tripods		
Tripod with adapter, color: bronze green	R&S®ADD1XTP	4063.4409.02
Tripod with adapter, color: aluminum	R&S®ADD1XTP	4063.4409.03

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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

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

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

