

R&S®HL024S2 CROSSED LOG- PERIODIC ANTENNA

1 GHz to 18 GHz

Log-periodic directional antenna consisting of the R&S®HL024A1 and a passive polarization switching network



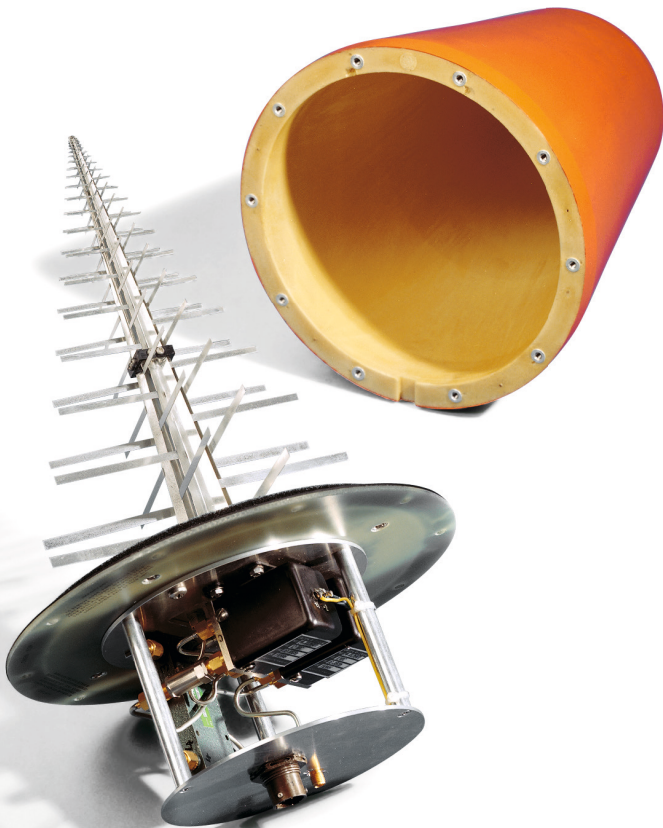
The R&S®HL024S2 crossed log-periodic antenna can be used for waves with horizontal, vertical, left-hand or right-hand circular polarization.

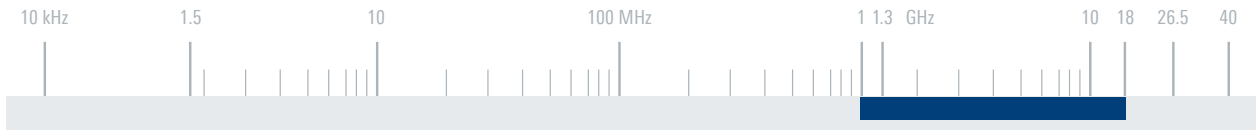
It consists of the R&S®HL024A1 antenna and a polarization switching network. Polarization can be selected by remote control using e.g. the R&S®GB016.

The R&S®HL024S2 can also be used as a feed for the R&S®AC008 microwave directional antenna.

Key facts

- ▶ Horizontal, vertical, left-hand or right-hand circular polarization
- ▶ Wide frequency range
- ▶ Virtually frequency-independent radiation pattern
- ▶ Remote controlled polarization selection with optional R&S®GB016 control unit
- ▶ Usable as a feed for R&S®AC008 microwave directional antenna





Specifications

Frequency range		1 GHz to 18 GHz
Polarization		horizontal, vertical, left-hand or right-hand circular (selectable)
Input impedance		50 Ω
VSWR		< 3
Max. input power		9 W to 2.5 W CW
Antenna gain	linear	typ. 6 dBi
	circular	typ. 5 dBi
Power supply		12 V DC, 1 A
Connector		SMA female
Control connector		10-contact, round, male
Operating temperature range		-30°C to +55°C
Max. wind speed	without ice deposit	180 km/h
MTBF		> 100000 h
Dimensions	∅ × H; with radome	approx. 210 mm × 353 mm (8 in × 14 in)
Weight		approx. 1.7 kg (4 lb)

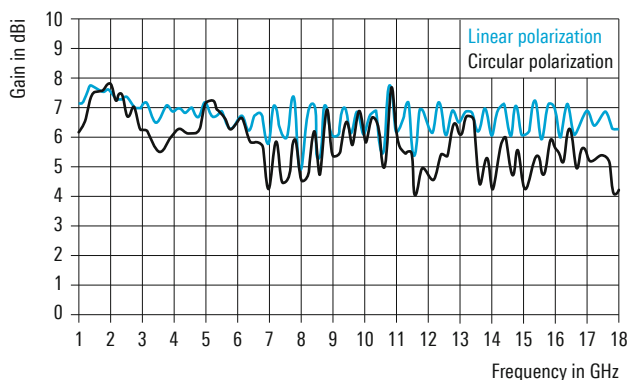
Ordering information

Ordering information	Type	Order No.
Crossed log-periodic antenna	R&S®HL024S2	4052.1003.02

Recommended extras

Control unit	R&S®GB016	4056.7006.03
Control cable, length: 10 m	R&S®GB016Z1	4056.7270.02
Microwave cable, length: 5 m	R&S®AC008W2	0751.6931.04
Microwave cable, length: 10 m	R&S®AC008W2	0751.6931.05
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.03
Wooden tripod	R&S®HZ-1	0837.2310.02
Module for R&S®OSP, for controlling R&S®HL024Sx and R&S®HL050S7	R&S®OSP-BS016	4118.6007.03
Open switch and control platform, without touchscreen	R&S®OSP-220	1528.3105.02
Open switch and control platform, with touchscreen	R&S®OSP-230	1528.3105.03

Typical gain



Typical radiation patterns (linear polarization)

