

# R&S®HL024S7 Crossed Log- Periodic Antenna

1 GHz to 18 GHz

Log-periodic directional antenna consisting of R&S®HL024A1 and a broadband preamplifier for horizontal or vertical polarization (selectable)



## Features

- Wide frequency range
- Selectable broadband preamplifier
- Selectable horizontal or vertical polarization
- No reduction in S/N due to the use of a low-noise amplifier at the antenna output
- Can be used as a feed for the R&S®AC090 to R&S®AC300 SHF directional antenna systems

## Brief description

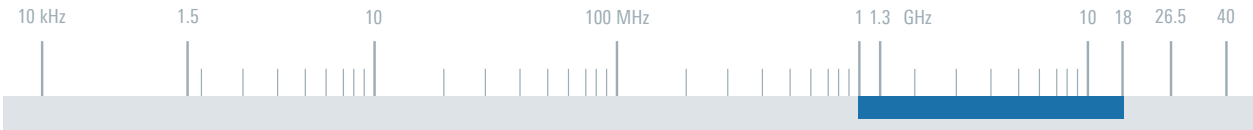
The R&S®HL024S7 consists of the R&S®HL024A1 crossed log-periodic antenna and a broadband preamplifier. It is suitable for the reception of linearly polarized waves.

Horizontal or vertical polarization can be selected.

The preamplifier can be optionally switched on. It prevents a significant reduction in S/N due to loss in RF cables connecting the antenna to a receiver.

The antenna can also be used as a feed for the R&S®AC090 to R&S®AC300 SHF directional antenna systems.





Specifications	
Frequency range	1 GHz to 18 GHz
Polarization	horizontal or vertical (selectable)
Input impedance	50 Ω
VSWR	<2.5
Gain (without polarization switch/preamplifier)	typ. 7 dBi
Noise figure	max. 3.6 dB
Gain (active network – can be switched on)	26 dB ±2 dB
1 dB compression point	min. +5 dBm

Power supply	+15 V DC (max. 0.3 A) (preamplifier), +12 V DC (max. 0.75 A) (switching network)
Connector	SMA female
Control connector	10-contact, round, male
MTBF	>100 000 h
Operating temperature range	-30 °C to +55 °C
Dimensions (diameter × height; with radome)	approx. 210 mm × 390 mm (approx. 8.3 in × 15.4 in)
Weight	approx. 1 kg (approx. 2.2 lb)

Ordering information	Type	Order No.
Crossed Log-Periodic Antenna	R&S®HL024S7	4042.8505.02
Recommended extras		
Control Unit	R&S®GB016	4056.7006.02
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

