

R&S®HX002M1 150 W HF Dipole

1.5 MHz to 30 MHz

With integrated antenna tuning unit for all distance ranges – optimized for use on ships



Features

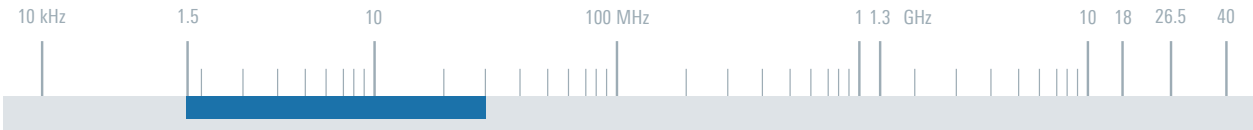
- ▮ Omnidirectional coverage through high-angle radiation (NVIS)
- ▮ No skip zone
- ▮ Automatic adaptive operation
- ▮ Silent tuning
- ▮ No control line required
- ▮ Can be set up close to neighboring antennas
- ▮ Optimized for use on ships

Brief description

The R&S®HX002M1 150 W HF dipole provides good coverage over all distances. It is optimized for omnidirectional coverage and ensures high transmission reliability over short and medium distances. The antenna can easily be integrated into existing systems since no separate control lines are required. All control signals and the power for the ATU are fed via the coaxial cable. The R&S®HX002M1 HF dipole can be directly connected to the R&S®XK2100 HF transceiver. For operation with other transmitters, the R&S®GX002A1 junction unit is available to provide power supply and antenna control.

The antenna with its small size and improved environmental data is particularly suitable for use on ships.





Specifications	
Frequency range	1.5 MHz to 30 MHz
Polarization	linear/horizontal
Input impedance	50 Ω
VSWR	<1.5 (typ. <1.3)
Max. input power	100 W CW/150 W PEP
Tuning time	
Without retuning	typ. 200 ms
Initial tuning	≤6 s (typ. 3 s)
Silent tuning	<30 ms
Tuning power	
With Rohde & Schwarz transceivers	30 W to 100 W
With R&S®GX002A1	50 W to 100 W

Power supply	21 V to 31 V DC (typ. 1 A)
Connector	N female
MTBF	>12000 h
Operating temperature range	-30°C to +55°C
Max. wind speed (survival)	
Without ice deposit	250 km/h
With 20 mm radial ice deposit	140 km/h
Dimensions	
Length	approx. 5.2 m (approx. 204.7 in)
Width	approx. 2.2 m (approx. 86.6 in)
Weight	approx. 34 kg (approx. 75 lb)

Ordering information	Type	Order No.
150 W HF Dipole	R&S®HX002M1	4021.6003.02
Recommended extras		
Junction Unit	R&S®GX002A1	4031.9005.02
Cable Set for R&S®XK852 and R&S®GX002A1	R&S®GX002K1	4031.8909.03

