

Всенаправленная антенна AU600



Диапазон 20 МГц - 8 ГГц

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

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Калуга (4842)92-23-67
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Киров (8332)68-02-04
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

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Саратов (845)249-38-78
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Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

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R&S®AU600 ACTIVE OMNIDIRECTIONAL RECEIVING ANTENNA SYSTEM

20 MHz to 8 GHz

For sensitive spectrum monitoring of horizontally and vertically polarized signals



The R&S®AU600 active omnidirectional receiving antenna system is optimized for the reception of linearly polarized signals in the frequency range from 20 MHz to 8 GHz.

Featuring a wide frequency range and simultaneous omnidirectional reception of signals with vertical and horizontal polarization, it is particularly suited for radiomonitoring and radiolocation tasks in stationary and semi-mobile installations.

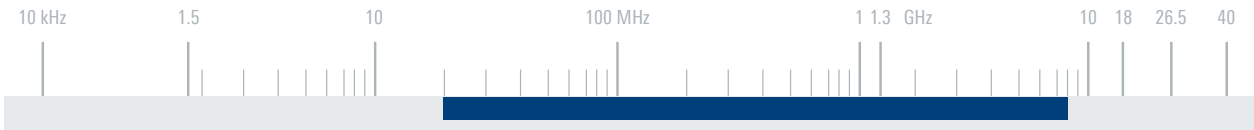
The antenna system is designed for extreme environmental conditions. Its compact size makes it ideal for locations with limited available space.

Built-in switchable low-noise amplifiers (LNA) and band-stop filters on the integrated switchboard ensure maximum sensitivity and allow the installation even at locations in close vicinity to transmitting antennas.

Key facts

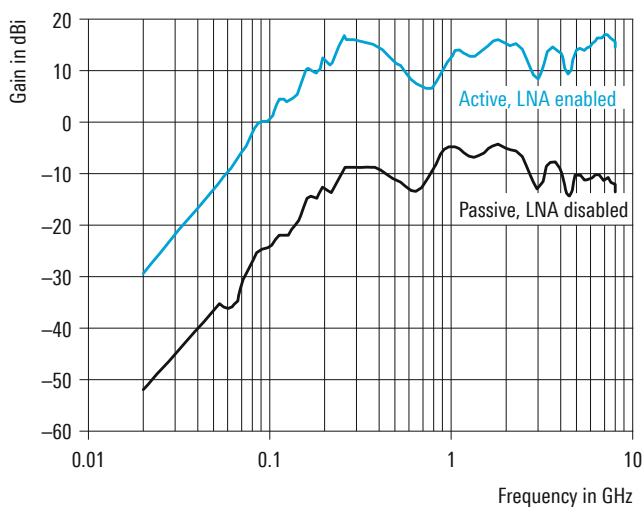
- ▶ Wide frequency range
- ▶ Omnidirectional reception
- ▶ Horizontal and vertical polarization simultaneously
- ▶ Ruggedized design for extreme environmental conditions
- ▶ Integrated switchable low-noise amplifiers and bandstop filters
- ▶ Suitable for installation even at locations close to transmitting antennas



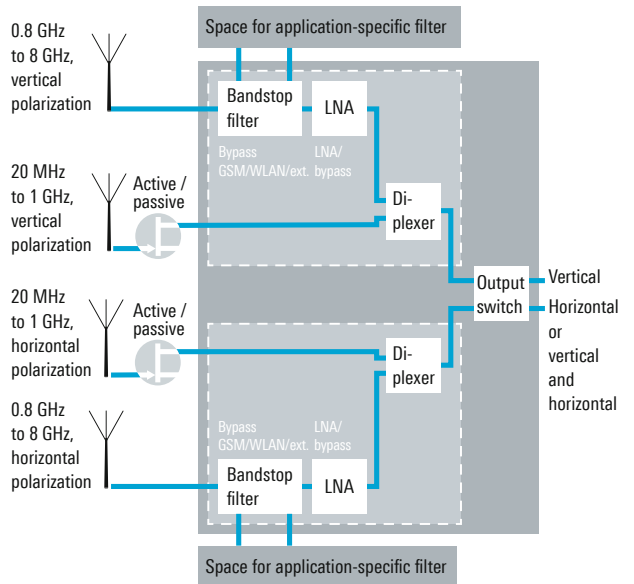


Specifications		
Frequency range		20 MHz to 8 GHz
Polarization		linear vertical and horizontal
Nominal impedance		50 Ω
VSWR		< 2.5; typ. 1.5
Circularity of azimuth pattern	vertical polarization	typ. ±2.5 dB
	horizontal polarization	typ. ±4.5 dB
IP3 in active mode	vertical polarization, f < 0.85 GHz; f ≥ 0.85 GHz	typ. 23 dBm; typ. 22 dBm
	horizontal polarization, f < 0.85 GHz; f ≥ 0.85 GHz	typ. 20 dBm; typ. 23 dBm
IP2 in active mode	vertical polarization, f < 0.85 GHz; f ≥ 0.85 GHz	typ. 44 dBm; typ. 32 dBm
	horizontal polarization, f < 0.85 GHz; f ≥ 0.85 GHz	typ. 37 dBm; typ. 33 dBm
Destructive field strength		> 50 V/m
Stopband attenuation of internal filters	GSM1800/UMTS	typ. 25 dB
	WLAN/LTE band 7	typ. 20 dB
MTBF		> 100000 h
DC power supply	via R&S®OSP-B158 or R&S®OCB600	-12 V (90 mA), +10 V (285 mA), +12 V (550 mA)
Operating temperature range		-40°C to +65°C
Max. wind speed	without ice deposit	275 km/h
	with 30 mm ice deposit	200 km/h
Protection class		IPx5, in line with EN 60529
Dimensions	Ø × L	approx. 0.382 m × 1.015 m (1 ft in × 3 ft)
Weight		approx. 17.5 kg (39 lb)

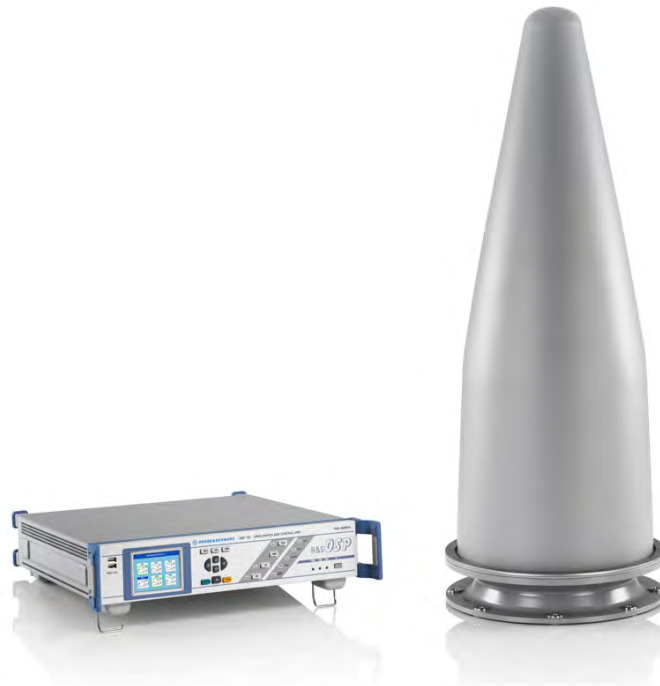
Typical realized gain for vertical polarization



Block diagram of the antenna system



Ordering information	Type	Order No.
Active omnidirectional receiving antenna system, color: squirrel gray (RAL 7000)	R&S®AU600	4094.6003.02
Recommended extras		
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
R&S®OSP module for R&S®AU600	R&S®OSP-B158	4094.7300.02
Supply and control cable for R&S®AU600 and R&S®OSP-B158, lengths: 10/20/50 m	R&S®AU600-K1	4094.7100.10/20/50
Outdoor control box for R&S®AU600	R&S®OCB600	3059.7400.02



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