

R&S®OAA1840 OUTDOOR ANTENNA AMPLIFIER

18 GHz to 40 GHz

To compensate cable losses between the antenna
and receiver

New



The R&S®OAA1840 is a low-noise outdoor antenna amplifier that compensates cable losses between the antenna and receiver. It covers the frequency range from 18 GHz to 40 GHz.

The R&S®OAA1840 provides a typical amplification of 25 dB and includes a DC/DC converter (from 24 V to 8 V) that supplies the amplifier with power.

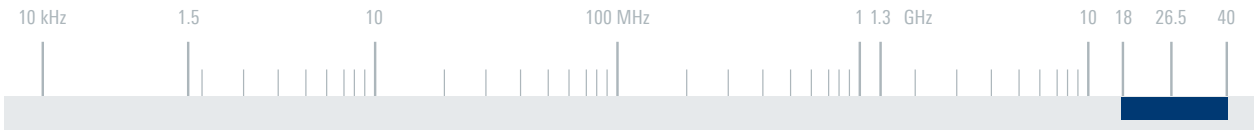
The compact amplifier has a weatherproof casing and can be mounted on a mast or a wall.

The R&S®OAA1840 complements the high band section of the R&S®AC005 omnidirectional antenna.

Key facts

- ▶ Wide frequency range
- ▶ High gain
- ▶ Compact design
- ▶ Weatherproof





Specifications		
Frequency range		18 GHz to 40 GHz
Gain	18 GHz to 40 GHz	+28 dB ±4 dB
VSWR (input and output)		≤ 3
Noise figure		3.5 dB (typ.)
P1dB output power		≥ 8 dBm
Interfaces		
DC input		5-contact circular connector (female)
RF input		K connector (female)
RF output		K connector (female)
General data		
Power supply	DC in	+24 V DC (-14 V/+6 V), max. 1 A
Operating temperature range	without direct sunlight	-30°C to +65°C
Storage temperature range		-30°C to +70°C
Relative humidity		95% cyclic test, +25°C/+55°C
Protection class		IP45, in line with EN 60529
Dimensions	W x H x D	approx. 160 mm x 100 mm x 50 mm (6.3 in x 3.9 in x 2.0 in)
Weight		0.8 kg (1.8 lb)

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Ordering information	Type	Order No.
Outdoor antenna amplifier	R&S®OAA1840	3065.5506.02
Recommended antenna		
Omnidirectional antenna	R&S®AC005	4113.3000.02



Top view



Bottom view