

# R&S® AirLancer ON-QT90

90° outdoor Wi-Fi sector antenna with 4x4 MIMO



The weatherproof R&S® AirLancer ON-QT90 sector antenna with a beam angle of 90° is ideal for Wi-Fi coverage over larger areas, such as warehouses and factories. With 4x4 MIMO support, it ensures maximum performance for reliable Wi-Fi client connectivity in difficult environments, especially where reflections and scattering occur. Due to its tri-band capability on all four ports, this antenna is perfect for mixed operation in the 2.4, 5, and 6 GHz bands.

- ▶ WLAN sector antenna with approx. 90° beam angle and +6 dBi gain in 2.4 GHz, 5 GHz, and 6 GHz
- ▶ 4x4 MIMO technology for reliable WLAN coverage in harsh environments
- ▶ Future-proof due to support of the new 6 GHz band
- ▶ Mounting kit for wall and pole mounting, cable and adapter included
- ▶ Connects to R&S® LANCOM indoor access points via the adapter R&S® AirLancer AN-RPSMA-NJ
- ▶ Especially suitable for use with the R&S® LANCOM outdoor access points OX-6402 and OW-602

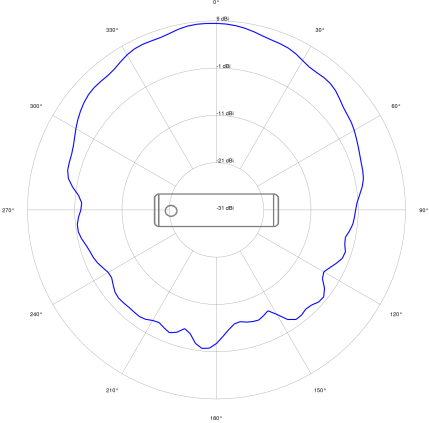
# R&S® AirLancer ON-QT90

Technical Information	
Frequency range	2400 MHz - 2500 MHz and 4900 – 7125 MHz
Impedance	50 Ohm
Polarization	-45°, +45°, -45°, +45°
Gain	6 dBi @ 2,4 GHz and 6 dBi @ 5GHz
Half-Power-Beam-Width horizontal	95° @ 2.4Ghz and 99° @ 5Ghz
Half-Power-Beam-Width vertical	97° @ 2.4 GHz and 60° @ 5 GHz
VSWR	typ. 1.5:1 - max. 2.0:1
Mechanical Information	
Connectors & Cables	4 x 100cm UV stable ULA100 cable with N-Plug
Dimensions	233.7mm x 183.7mm x 40mm
Weight	0.9 kg
Housing material	UV resistant plastic
Color	lightgray
Operating temperature	-40° to 85°C
Article	
Recommended use case	Point-to-Multipoint radio links / Sector coverage
Mounting material	articulating wall and pole mount accessories included
Support	
Warranty	2 years support
Accessories	
Antenna cable	R&S® AirLancer cable NJ-NP 3m, item no. 61230, R&S® AirLancer cable NJ-NP 6m, item no. 61231, R&S® AirLancer cable NJ-NP 9m, item no. 61232
Adapter	R&S® AirLancer AN-RPSMA-NJ adapter to connect ON Antennas to R&S® LANCOM Indoor Access Points and IAPs, item no. 61259
Surge arrester (antenna cable)	R&S® AirLancer SurgeProtect surge arrester (2.4 and 5 GHz), to be integrated between Access Point and antenna, item no. 61257
Fit for the following LANCOM devices	
Outdoor	R&S® LANCOM OW and OX series (with external antenna connectors)
Indoor	All R&S® LANCOM Indoor Access Points and IAPs via separately available Adapter R&S® AirLancer AN-RPSMA-NJ*
*) Note	You need one adapter per antenna connector
Item number(s)	
R&S® AirLancer ON-QT90	61264

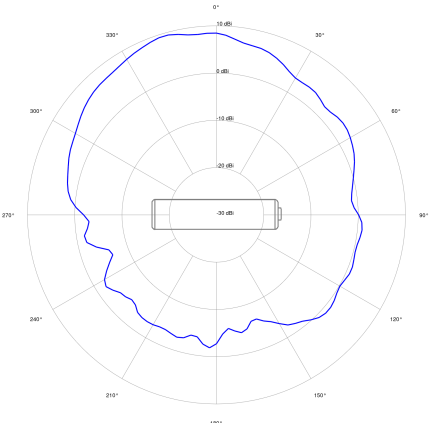
# R&S® AirLancer ON-QT90

**Antenna Gain (combined gain of all antenna elements)**

2.4 GHz, Azimuth Plane



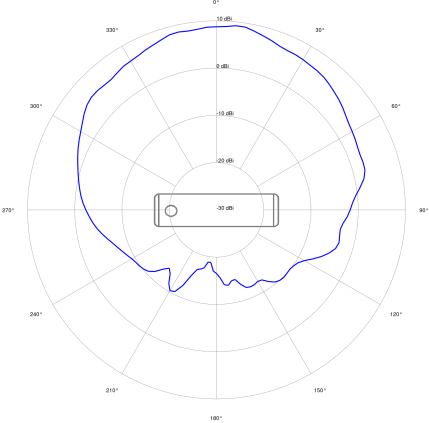
2.4 GHz, Elevation Plane



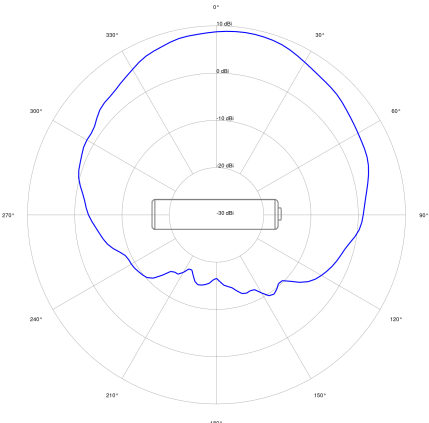
# R&S® AirLancer ON-QT90

**Antenna Gain (combined gain of all antenna elements)**

5.25 GHz, Azimuth Plane



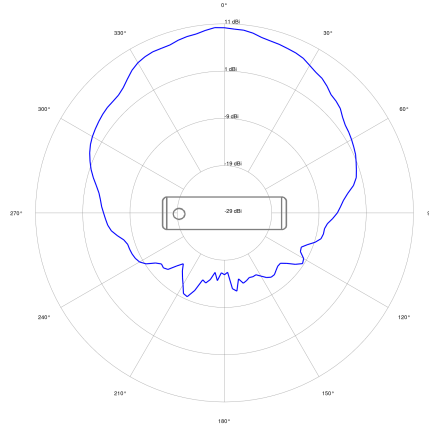
5.25 GHz, Elevation Plane



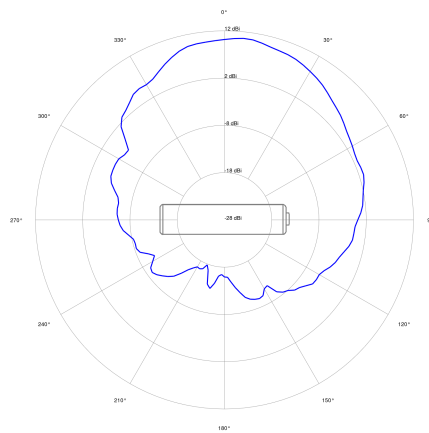
# R&S® AirLancer ON-QT90

Antenna Gain (combined gain of all antenna elements)

5.6 GHz, Azimuth Plane



5.6 GHz, Elevation Plane



Rohde & Schwarz Networks and Cybersecurity GmbH  
Adenauerstr. 20/B2  
52146 Wuerselen | Germany  
[info.rs-nc@rohde-schwarz.com](mailto:info.rs-nc@rohde-schwarz.com) | [www.rohde-schwarz.com/networks-and-cybersecurity](http://www.rohde-schwarz.com/networks-and-cybersecurity)

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