



Mobile Communication Antennas

Evolution and
Superintegration



MOBILE
COMMUNICATION

KATHREIN

Introduction

Mobile communication means being available anywhere and anytime, using media and having internet access. Mobile network operators face the challenge of reliably providing needed capacities for the enormous data volumes. Kathrein offers the optimum portfolio to deal with this. Our mobile communication antennas are future-proof, offer low total cost of ownership and ensure highly reliable data transmission.

Advantages of Kathrein antennas

- Future-proof technology and frequencies, e.g. incorporation of the L-Band to cover supplemental downlink
- Just one antenna for multiple wireless technologies, high degree of integration
- Proven low wind load performance
- Significant CAPEX reduction through just one antenna in site acquisition and build-up
- Considerable reduction in OPEX thanks to reduced site/mast rental fees and best-in-class reliability
- Individual electrical downtilt per band
- Various antennas for MIMO applications
- Latest antennas are equipped with 4.3-10 connectors
- Outstanding intermodulation performance

Indoor, Small Cell, RET

Indoor Antennas

- For ceiling and wall mounting, concealed installation possible
- Multi-band coverage from 694 up to 6000 MHz
- MIMO ready

Small Cell Antennas

- Unobtrusive design with low visual impact
- Different product lines for optimum integration of antennas in surroundings, e.g. top-pole, pole-mounted and hidden solutions

Remote Electrical Tilt (RET) System

- All devices work in accordance with AISG/3GPP
- Technologies for optimised installation, e.g. RFID-RCU, FlexRET
- Site sharing devices for FlexRET available
- Flexible AISG control devices



Concealed indoor antenna



Small cell antenna



FlexRET system

Antenna Types

Kathrein offers a variety of different antenna types in order to meet all kinds of different application scenarios.

Definition of Frequencies

- Lowband \leq 960 MHz
e.g. 698-960 MHz or 790-960 MHz
- Highband $>$ 960MHz
e.g. 1710-2200 MHz, 1695-2690 MHz (ultra-broadband) or 1427-2690 MHz (enhanced highband)

2-Port Antennas

- 1 x Lowband
- 1 x Highband
- 1 x Lowband | 1 x Highband (integrated combiner)

4-Port Antennas

- 2 x Lowband
- 1 x Lowband | 1 x Highband
- 2 x Highband
- 2 x 3.5 GHz

6-Port Antennas

- 1 x Lowband | 2 x Highband
- 2 x Lowband | 1 x Highband
- 3 x Lowband
- 3 x Highband



2-port antenna



6-port antenna

8-Port Antennas

- 1 x Lowband | 3 x Highband
- 2 x Lowband | 2 x Highband
- 4 x Highband

10-Port Antennas

- 1 x Lowband | 4 x Highband
- 2 x Lowband | 3 x Highband
- 3 x Lowband | 2 x Highband

12-Port Antennas

- 2 x Lowband | 4 x Highband

14-Port Antennas

- 2 x Lowband | 5 x Highband



For product data sheets and details about antenna types and frequencies, please ask your local Kathrein sales contact or visit www.kahtrein.com.



8-port antenna



12-port antenna

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