Indoor Antennas
Kathrein offers a comprehensive portfolio of indoor antennas for ceiling and wall mounting. The design of these antennas is characterized by the capability of supplying multi-band coverage. This means only one indoor antenna is sufficient to cover a huge range of mobile communication services from 694 up to 6000 MHz.

Besides indoor solutions, Kathrein offers different outdoor VPol Panel and Omni antennas. Please contact us for more information.

Antenna Line Devices
Kathrein’s portfolio contains a wide range of antenna line products such as filters, combiners and double tower mounted amplifiers (DTMAs):

- Filters for pre-selection and duplexing applications
- Dual-, triple- and quad-band combiners
- Same-band and hybrid combiners
- System components (e.g. DC-stops, Smart Bias Tees)
- DTMAs for GSM, UMTS and LTE
  - AISG capability or CWA (Current Window Alarming) support or both standards combined
  - Excellent noise figure, low insertion loss, various gain performances available
  - Single- and Dual-band/special bypass solutions

Remote Electrical Tilt (RET) System
Kathrein’s complete RET system works in accordance with the AISG (Antenna Interface Standards Group) and 3GPP (3rd Generation Partnership Project) standard.

Components for RET:
- FlexRET system
- Slimline Remote Control Unit (RCU) with RFID feature
- Antenna Line Configurator (ALC)
- Portable Control Adapter (PCA)
- Central Control Unit (CCU)

Further accessories are available. Please ask for further information regarding the new RFID features and the FlexRET system.

Need more Information?
Visit our website
www.kathrein.com

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Additional antennas for e.g. LTE 1800, LTE 2.6 or other spectrums are contained in our portfolio, but are not part of this booklet.

For any additional information, please contact: mobilcom@kathrein.de

Our representative

Low-Band Portfolio for GSM, UMTS and LTE
Evolution of Multi-Band and Ultra-Broadband Antennas
Ultra-Broadband Design
Kathrein as the market leader and oldest antenna manufacturer worldwide has always been seen as the driving force with regard to the newest and most innovative antenna technologies for mobile communication systems. Positive customer feedback constantly proves the outstanding quality of Kathrein products while reaching best in class KPIs. Another innovation was the development of an ultra-broadband low-band XPol dipole covering an extended frequency range of 698-960 MHz. The Kathrein low-band antenna portfolio is successively enlarged with this technology.

Features / Benefits:
• Broadband and ultra-broadband design
• Just one antenna for multiple wireless technologies
• Individual electrical downtilt adjustment per band
• Different half-power beamwidths available
• 2 x 2 up to 4 x 4 MIMO capability
• Significant CAPEX reduction through just one antenna in type approvals, logistics, installation and service upgrades.
• Considerable reduction in OPEX thanks to reduced site / mast rental fees and best-in class reliability

Single-Band Antennas

Single Units
Due to the consequent frequency enlargement of the existing low-band portfolio, Kathrein is able to offer a variety of different broadband low-band solutions. Special single-band antennas for LTE 700 are also available, which provide the additional feature of integrated remote control units (iRCU).

- 790-960 MHz
- 698-864 MHz (iRCU)

Double Units
Furthermore, side-by-side solutions provide the possibility to deploy different technologies and realise site sharing or offer 4 x 4 MIMO with one antenna only:

- 790-960 / 790-960 MHz
- 824-960 / 824-960 MHz (optimised mechanical dimensions)

Dual-Band Antennas

Kathrein’s dual-band low-band antennas provide two different independent systems in only one common radome. Kathrein offers a variety of dual-band solutions in order to meet a multitude of network requirements, e.g.

- 790-862 / 880-960 MHz (filter version)
- 790-960 / 1710-2170 MHz (filter version)
- 698-894 / 1710-2170 MHz (iRCU)

Quad-, Penta- and Hexa-Band Antennas

The latest steps of innovation have resulted in the product launch of quad-band antennas which are designed in several variations. According to their requirements, customers can choose between filtered multi-band types with different band combinations or side-by-side multi-array solutions:

- 790-862 / 880-960 / 1710-2170 / 2490-2690 MHz (filter version)
- 790-960 / 1710-1880 / 1920-2170 / 2490-2690 MHz (filter version)
- 2 x 790-960 / 2 x 1710-2180 MHz (multi-array version, 4 x 4 MIMO capable)

With Kathrein’s triple-band technology, not only two but three independent systems are covered by one antenna. These triple-band antennas are designed as either filter, stacked or multi-array versions, e.g.

- 790-862 / 880-960 / 1710-2180 MHz (filter version)
- 790-960 / 1710-1880 / 1920-2170 MHz (filter version)
- 698-960 / 2 x 1710-2690 MHz (stacked version)
- 698-960 / 2 x 1710-2690 MHz (multi-array version, 4 x 4 MIMO capable)

Due to the growing requirements for mobile services along with the limited space on available sites, Kathrein has succeeded in developing high-end multi-array penta- and hexa-band antennas:

- 698-960 / 4 x 1710-2690 MHz (both have up to 8 x 8 MIMO capability)

Single Units

Due to the consequent frequency enlargement of the existing low-band portfolio, Kathrein is able to offer a variety of different broadband low-band solutions. Special single-band antennas for LTE 700 are also available, which provide the additional feature of integrated remote control units (iRCU).

- 790-960 MHz
- 698-864 MHz (iRCU)

Double Units
Furthermore, side-by-side solutions provide the possibility to deploy different technologies and realise site sharing or offer 4 x 4 MIMO with one antenna only:

- 790-960 / 790-960 MHz
- 824-960 / 824-960 MHz (optimised mechanical dimensions)