



Kathrein Inside Connect

Integrates Mobile Communication into Ad Space



Introduction

In times of almost unlimited need for mobile access anytime and anywhere, the deployment of small cells in high-density areas is a universal approach. But most of the inner-city areas which are at their capacity limits are highly visually sensitive. Hence, one of the main challenges is the aesthetic integration of the required equipment into the small cell sites. To optimise this, Kathrein has introduced a new and innovative solution to provide invisible antenna integration for these lively spots: Kathrein Inside Connect.



Invisible Integration

Kathrein Inside Connect is designed to be easily integrated into street furniture such as billboards, columns and bus shelters and is therefore not visible. Kathrein developed the modular system together with JCDecaux, the number one outdoor advertising company worldwide.

Modular Concept

Kathrein Inside Connect is a modular antenna system: the simple plug-in system allows multiple configurations by just joining the modules together. The components have a compact flat design and can, for example, be incorporated into all sorts of street furniture. This guarantees easy access to power and to the fixed networks.



Basic module as stand-alone antenna

Additional Accessories

In order to enable the customers to build the different multiple configurations, Kathrein offers a range of adapters and mounting support parts. These mounting accessories can be ordered separately (type no. 85010205).



The modular concepts allow many different applications according to the requirements of each individual site. The antenna module can be used as a stand-alone device as well as part of a combined antenna system.

2 modules



4 modules



4 modules



3 modules



8 modules



MIMO can be deployed with each configuration: 2 x 2 for stand-alone and 4 x 4 for combined modules.

Electrical Specification

Type No.	80020100
Frequency range [MHz]	1695–2690
Gain [dBi]	max. 8
Horizontal HPBW [°]	75 (±5)
Vertical HPBW [°]	75 (±5)
Isolation [dB]	> 25
Max. effective power per port [W]	40 (at 50°C ambient temperature)
VSWR	< 1.9
Passive intermodulation [dBc]	< -150 (2 x 43 dBm carrier)
Polarisation [°]	+45/-45 (2 x 2 MIMO)
Connector	Bottom, 2 x 4.3-10 female
Height/width/depth [mm]	121.5/124/74

Possibilities of street furniture to integrate Kathrein Inside Connect



Multi-service column



Bus shelter



City information panels



Please ask your Kathrein contact for further information about the product, trials or installation details.

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