

In-Building Wireless Solutions

Passive Distributed Antenna Systems





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With increasing data traffic and the need for mobile access any time and anywhere, additional availability of mobile networks in indoor environments is indispensable. To overcome the network coverage challenges, distributed antenna systems (DAS) are installed in typical indoor venues like shopping malls, hotels, hospitals and transportation infrastructures.

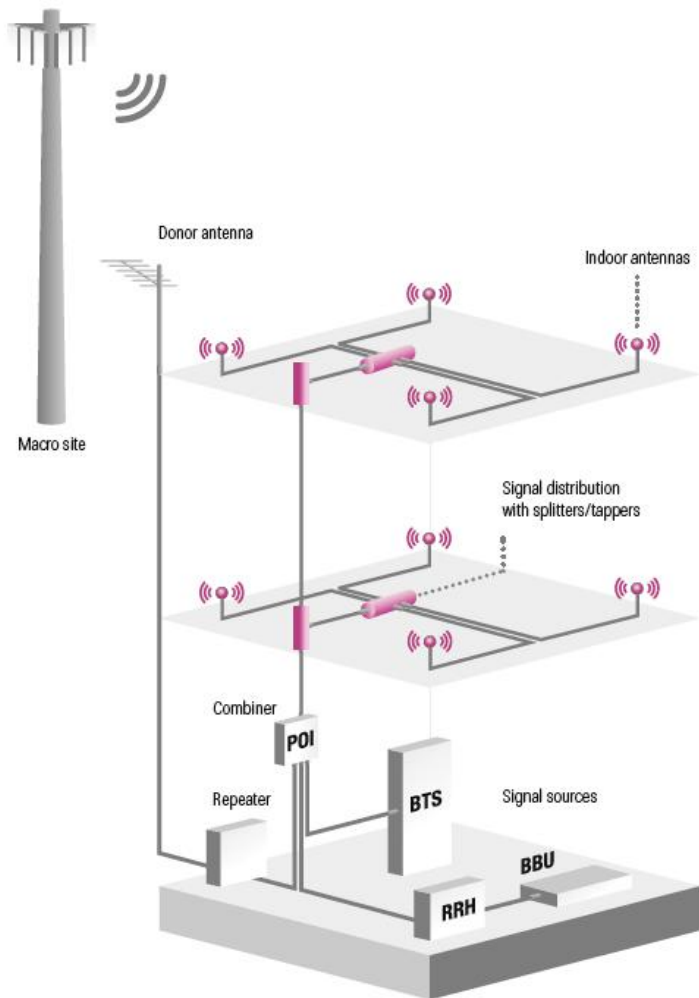
Cutting Edge Specs

Up to 6 GHz products covering UHF, 4G/LTE and 5 G.
Exceptional RF performance with industry leading low PIM values.

Highest Reliability

With more than 3 million indoor products sold and more than 20 years of experience in passive indoor systems.

Functional Layers of Passive DAS Systems



In a passive DAS, all components which are used for the distribution of the source signals throughout the indoor location are passive devices.

Design is an essential phase in the passive DAS deployments since the location of antennas as well as the the power levels define the reliability of the network.

SIGNAL SOURCE



Can be fed into the building in different ways:

- Donor antenna and repeater
- Standard base station (BTS)
- Baseband unit (BBU) plus remote radio head (RRH)

SIGNAL DISTRIBUTION



Power Splitters, Tappers, Directional Couplers, Hybrid Combiner

In order to distribute the sum of signals to the various floors/ spots, the correct splitting of the signals is essential.

INDOOR ANTENNAS



Multi-band antennas are used in the building

- Frequency ranges 698–6000 MHz
- Ceiling or wall mounting
- Omnidirectional or directional
- MIMO capability

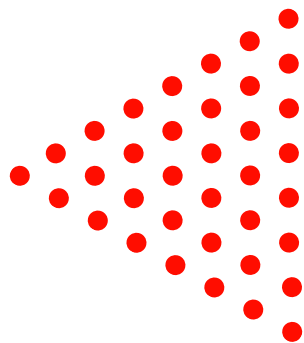


Benefits of Passive DAS

Easy to deploy, requires low CAPEX and OPEX, can be installed at harsh environments, components from different manufacturers can be used and overall system delivers outstanding performance!

Price per Capacity

Deployments of Passive DAS systems cost half price of active systems yet delivers very high capacity by combining multiple technologies within the same band.



Coordinating with Operators

Planning is a critical part of any successful DAS installation. Telecom operators can take the lead of the deployment or private enterprises can also deploy their own networks.

UNMATCHED PERFORMANCE WITH MARKET LEADING PRICES

With over 100 years in the business, KATHREIN Digital Systems is a leading equipment supplier of the global satellite, cable and wireless communications industries.



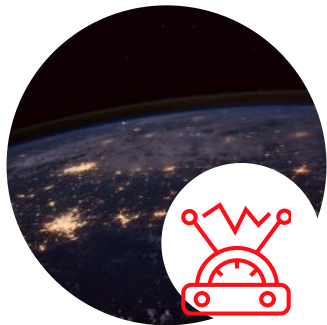
Low-PIM

Guaranteed passive intermodulation (PIM) performance.



Integrated Systems

Comprehensive product line for distribution and reception.



Future Proof

Always ahead of the market with next gen. technologies.



Ready Stocks

World-wide deliveries from our central hub in Germany.

INDOOR MIMO/SISO

ANTENNAS



1-Port Omni
Antennas



2-Port Omni
Antennas



1-Port Directional
Antennas



2-Port Directional
Antennas

pDAS DISTRIBUTION

SYSTEMS



High Power Splitters



Low Power Splitters



Couplers



Terminations



Tappers



Combiners



3 million

INDOOR PRODUCTS DEPLOYED
WORLDWIDE

Mobile service providers and venue owners (i.e. stadiums and shopping malls) have been using Kathrein pDAS products for more than two decades to improve network coverage.

Case Study: Romanian Operator RCS & RDS

In total, 700 Kathrein indoor antennas, 300 splitters and 350 tappers were installed for the RCS & RDS single operator projects.

Typical antennas in these installations were e.g. bidirectional antennas, wall-mounted directional antennas and ceiling mounted omni-antennas.

The reliability of Kathrein indoor products, the 100% availability and expertise of the local Kathrein partner in design and implementation team were key factors for RCS & RDS in their supplier selection process.

Case Study: Indoor Passive DAS in Mauritius


For Mauritius Telecom, Kathrein pDAS systems were deployed in the following buildings:

Nexteracom: Office Building floors 1-14, 103 antennas, 14 tappers, 55 splitters

Nexteracom: Office Building floors 2-13, 86 antennas, 13 tappers, 51 splitters

Nexteracom: Office Building floors 3-8, 57 antennas, 6 tappers, 30 splitters

Citadelle Shopping: Mall floors, 22 floors, 134 antennas, 17 tappers, 66 splitters



" Choosing Kathrein to provide the technology to support this project was simple; they deliver the best and highest quality signal technology which we've had previous success with in numerous other projects. "

Romkatel | Kathrein Romania Authorized Distributor



PARTNER BENEFITS

Support & Promotion

- Technical trainings tailored per your needs
- Pre-Sales and installation support
- Project protection and lead generation
- Being listed as KDS distributor on company web site
- Access to KDS database for marketing materials
- Joint local events

Technical & Commercial

- Long term support and warranty - made in Germany systems!
- Flexibility with a wide range of products – end to end solution
- Low power consumption and technician friendly hardwares.
- Always ahead of the market with next generation technologies
- Ready stocks
- Leading performance/price ratio!



Apply to Become an Authorised Distributor

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