

Mugler Partnered with Airspan to Build Technical University Kaiserslautern's Private Network to Support its Smart Factory Research

Industry
Smart Factory

Location
Kaiserslautern,
Germany

Partner
Mugler AG

End User
Technical University
Kaiserslautern

Reference

Overview

Mugler AG, a private network provider partnered with Airspan and Druid to work on Technical University Kaiserslautern P5G research project. TU Kaiserslautern is a public research university that evaluates and tests 5G network concepts for production and intralogistics in close collaboration with the DFKI and the Smart Factory.



Challenges



The scope aims to test the functionalities of Open RAN based networks such as the integration of AI-functionality (Artificial Intelligence) for automated optimization and its distinct characteristic as a vendor-independent platform.

Solution & Benefits

Airspan's OpenRANGE solution was used into the project. This includes AirVelocity 2700, a Split 7.2 "Indoor" radio and CU and DU software which are based on O-RAN and 3GPP standard. One reason for the cooperation on the part of TUK and MUGLER is the advantage of OpenRANGE being built on a virtualized network environment, where the baseband is fully implemented via software and can be used in connection with commercial of the shelf (COTS) server-hardware.

Two different vendors were also deployed for providing the core network and the radio access network to test the feasibility of Open RAN as a standalone network.

The test results convinced TU Kaiserslautern that 5G Open RAN is the enabler for further innovations in production and intra logistics in intelligent factories.

Airspan

AirVelocity 2700 / n78



Airspan

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