

King Abdullah Specialist Children Hospital, KSA

Hytera BDA Enhances Indoor Signal Coverage for Hospital

User

King Abdullah Specialist Children Hospital,
Kingdom of Saudi Arabia

Market segment

Healthcare

Project time

2016

Products

Hytera TS-9200 BDA (Bio-directional Amplifier)

Solution features

Indoor signal coverage enhancement



Background >>

National Guard Health Affairs is a medical complex in the Kingdom of Saudi Arabia under the management of Ministry of National Guard. It provides optimum healthcare service to the personnel of Saudi Arabia National Guard (SANG), their dependants and other eligible patients. It consists of medical cities that are scattered in many regions of Saudi Arabia such as Riyadh, Jeddah, Dammam and Al-Ahsa.

King Abdullah Specialized Children's Hospital, located in the King Abdulaziz Medical City in Riyadh, is the nation's first and most advanced children's hospital, occupying 192,000sqm, over 10 levels, with a total bed capacity of 552. The design of the Hospital has enabled the creation of a four floor podium construct, with three towers rising from the podium, accommodating all inpatient beds, intensive care units, play areas and family resource facilities. It's a patient-focused facility, putting patient concerns at the center of the care. The Hospital is a paperless digital hospital with all patient files electronically maintained.

Challenges >>

The daily operation of the hospital relies heavily on a wireless paging system which provides easy communication between patients and nurses. Whether it is a medical emergency or the patient is simply uncomfortable, hospital staff will receive instant, discrete notification so they can respond accordingly. Yet due to the big and complicated internal structure of the building and thick walls, the paging system suffered blind areas for certain floors and offices which lead to the complaint from the patients and the staff. A fast-deployable and easy-to-install indoor coverage solution was required by the hospital.



TS-9200





Solution >>

To address this problem, Hytera together with its partner made a detailed site survey and provided an one-stop tailored solution for KASCH, which including BDA(Bio-directional Amplifier) and DAS(Distributed Antenna System). The Hytera BDA is cost effective and flexible, compatible with different RF technologies like paging system, DMR(conventional & trunking), TETRA, MPT1327.etc and widely adopted for the signal enhancement for different scenarios like tunnels, subway, hotel, plant, hospital, etc. The modular design and remote monitoring function (by GSM or serial port) make it easy for management and maintenance. Either band-selective or channel-selective, it supports three modes: integrated, fiber optical (local + remote units) coupling by air, or directly to the RF source, which can be customized by the end users' real demand.

Benefit >>

Soon after the start-up and hand-over of the project, KASCH staff found all the blind areas disappeared and well covered by the BDA and DAS. Patients' satisfaction has further improved due to a more instant response of the staff.

Voice from Customer >>

"By adopting Hytera solution, our work efficiency has been improved greatly. Time is critical for patients; our personnel have to act immediately when in need. We attach great importance to our communication system, thanks to Hytera, this part of job is secured."



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