

Kunming Terminal Deploys Altai Super WiFi for Wireless Connection

Kunming Terminal in China is one of the modern railway terminals invested and operated by CRintermodal. Kunming Terminal is located in the Xincheng Economic Development Zone of Kunming, opposite the Kunming South Station on the Nankun Line. To cope with business expansion and in order to increase operation efficiency, the Kunming Terminal selected the Altai Super WiFi Solution to replace its existing Cisco 1300 outdoor access points.

With an area of over 800,000 sq.m., four Altai A8-Ei Super WiFi Base Stations were installed on the rooftops and light towers for large area WiFi coverage. As well, some Altai A2's were deployed for increasing the WiFi system capacity as well as signal coverage area.



Compared to existing WiFi network, the patented Altai Super WiFi technology is able to provide significantly larger coverage and higher throughput capacity than the Cisco access points; therefore fewer base stations are required per square kilometer.

Equipped with the Adaptive Interference Control system, the Altai A8-Ei is able to operate in this high interference environment without degradation to the transmission data throughput capability. Instead of just a few areas previously having wireless coverage, Kunming Terminal now has wireless coverage across the whole terminal. Staff can access wireless internet using their handheld terminals in every corner of the site. The Altai Super WiFi network has greatly enhanced the accuracy and efficiency of daily operations at Kunming Terminal.

Problems & Challenges:

- Signal loss and interference are significant problems in a terminal environment
- Cover 100% of the 800,000 sq.m. inside the terminal at minimal cost

Solutions:

- Equipped with Adaptive Interference Control mechanism, Altai A8-Ei is able to operate in high-interference environments and co-exist with other near-band radio equipment such as CDMA, GSM
- Altai's multi-radio and multiple smart antenna technology can increase the signal coverage by 7 times in area and 3 times in throughput and therefore minimize the required number of base stations
- Altai A2's provides a low cost supplement for filling coverage holes