



Wireless Monitoring in Baosteel Group Corporation

Requirement Background

With the more and more standardized management of modern enterprises, the monitoring of the plant has become a standard. Factory has a wide range, large scale characteristics. The production and management department requires high safety factor. In a large number of production workshops, outdoor places and functional departments to achieve the combination of on-site monitoring and production command, which will greatly improve the level of intelligent management of the plant.

Requirement Analysis

Most of the plant construction period is relatively early. Network communications network planning is relatively inadequate, it cannot be spread to every corner, and even at the monitoring point will always move. Wired data transmission mode is sure to need buried pipes and wiring, will damage the plant landscape, and the construction itself there is a certain difficulty.

Wireless communication does not have to be limited by geographical factors. It is able to achieve a full range of monitoring of all roads, factories, factories and warehouses. A temporary point or increase point in demand is also very easy to complete. For the monitoring of different departments can also set different permissions. In general, wireless network technology has the advantages of simple construction, good scalability and flexibility, easy maintenance and low cost.

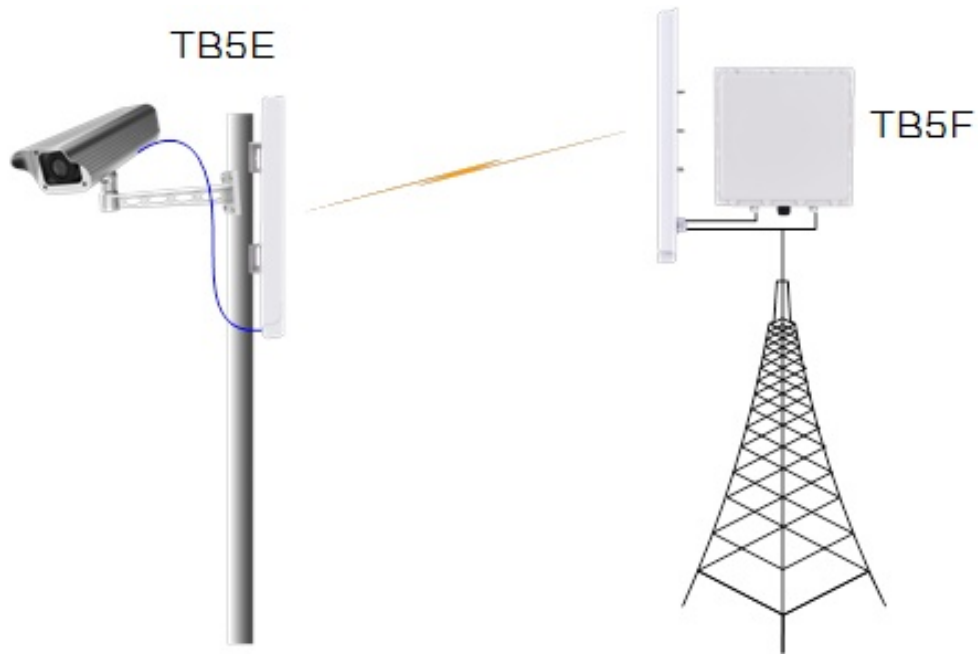
System Topology

Plant monitoring is generally required for the main road, the entrance, parking, workshop, warehouse and other areas around the area for real-time view.

Monitoring room is generally located in the security room which is at the edge of the plant and the location is not high. Monitoring rooms and other monitoring points are usually not visible. We generally choose a relatively high building to do the relay point. The data of the monitoring points is then transmitted to the control room by the relay point.

Ground monitoring point:

Cameras and wireless devices can be mounted on a street lamp pole or a house. Select TB5E as the transmission equipment in the plant area.



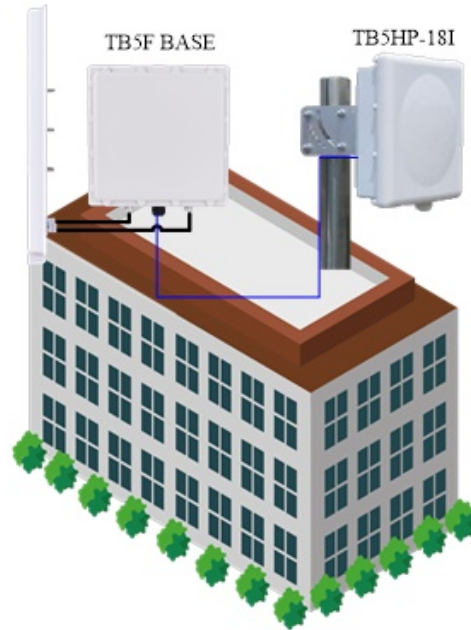
Warehouse monitoring point:

Install TB5E device at the top of the warehouse and install the camera in the warehouse.



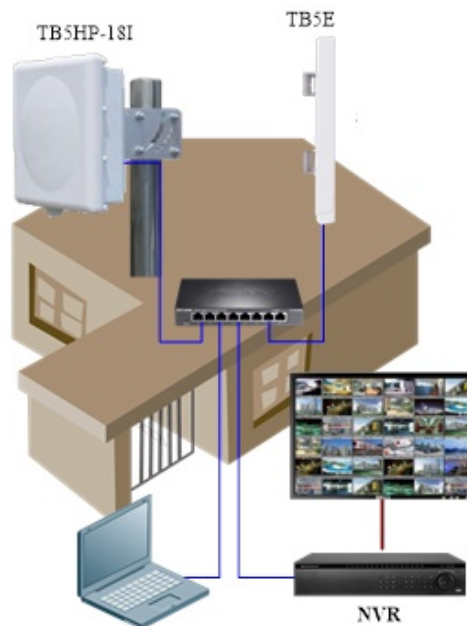
Relay point installation:

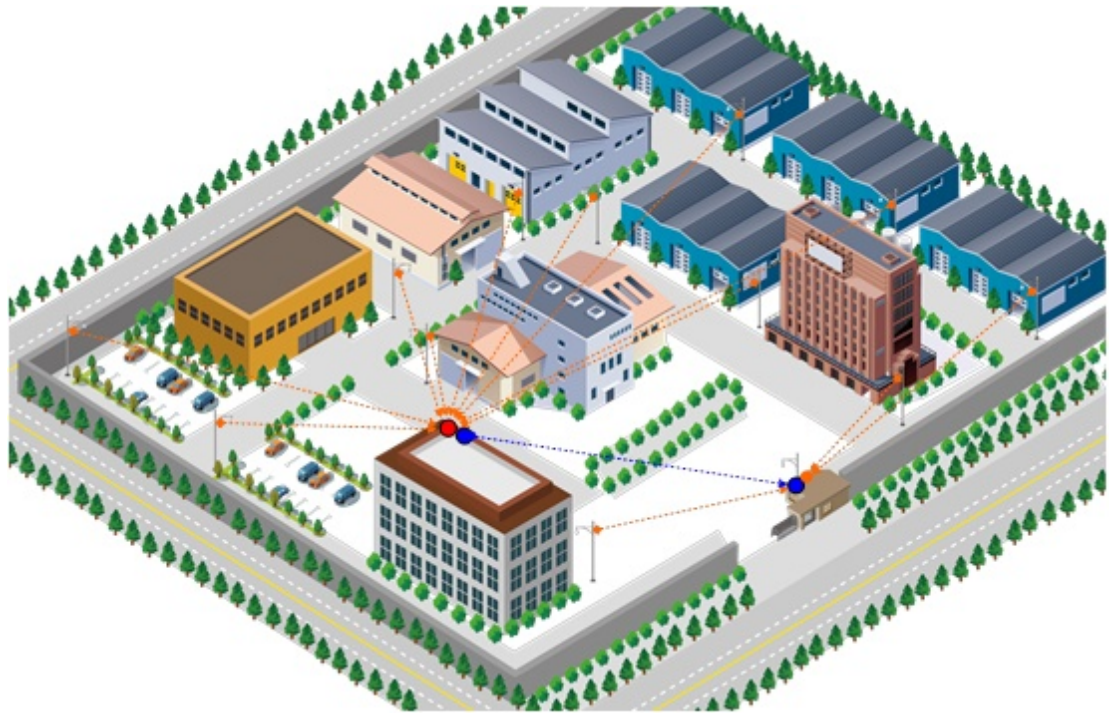
Using TB5F device, can be achieved coverage. Use a pair of TB5HP-18I were set up in the building and security room as backhaul link. The bandwidth of TB5HP-18I in the range of 5km is up to 200 ~ 400Mbps, which can satisfy the transmission of backbone links in most cases.



Security room point:

A TB5E receiver monitoring point video data. A TB5HP-18I to receive the data sent by the relay point.

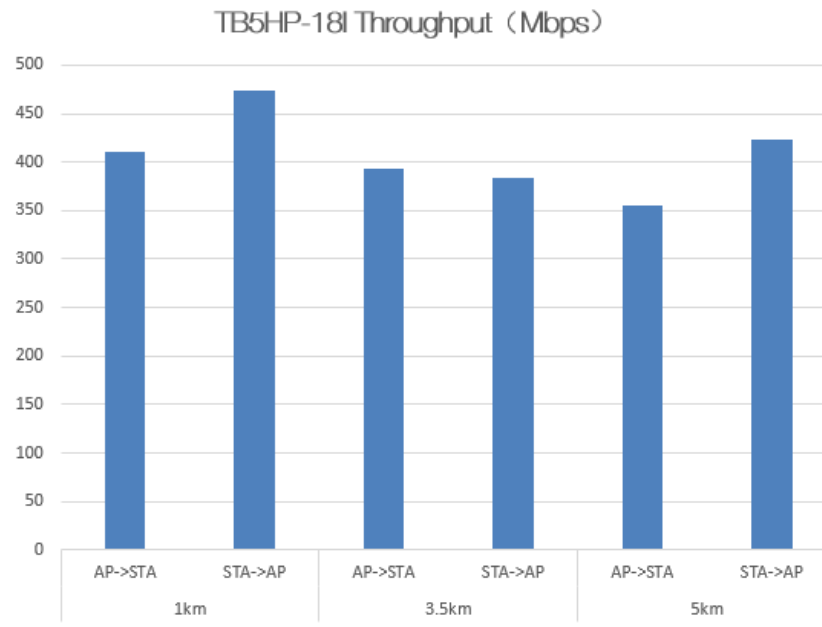
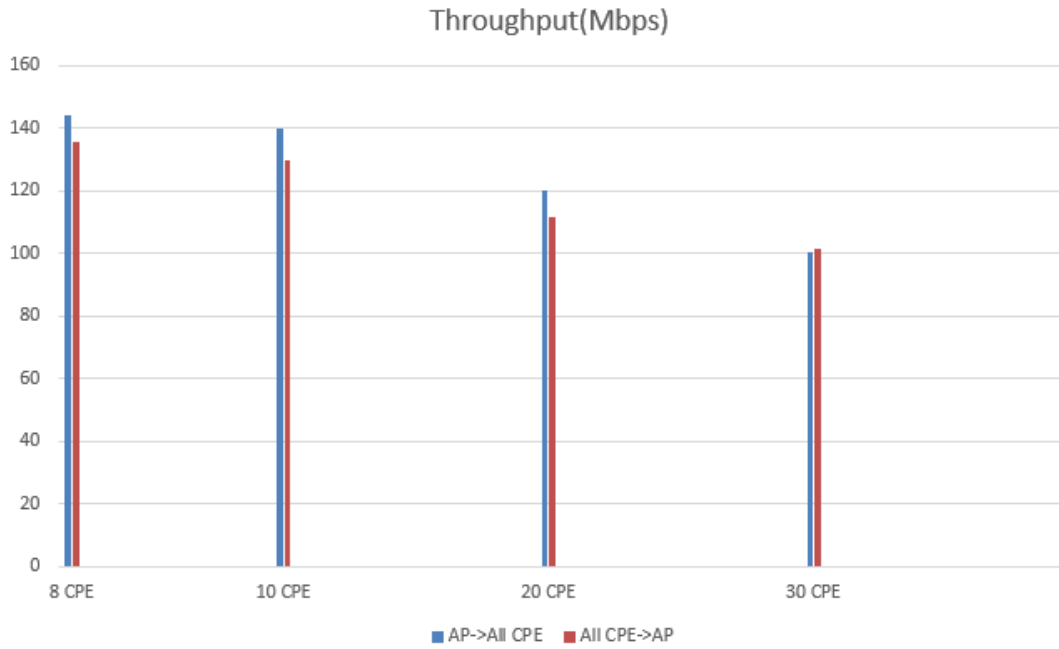




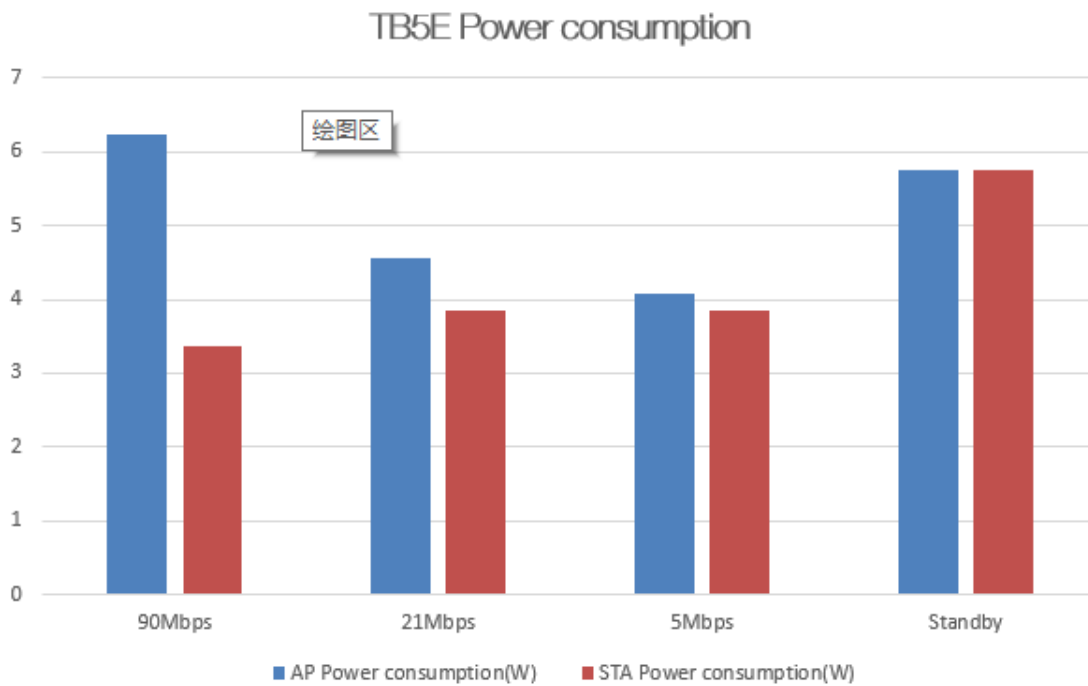
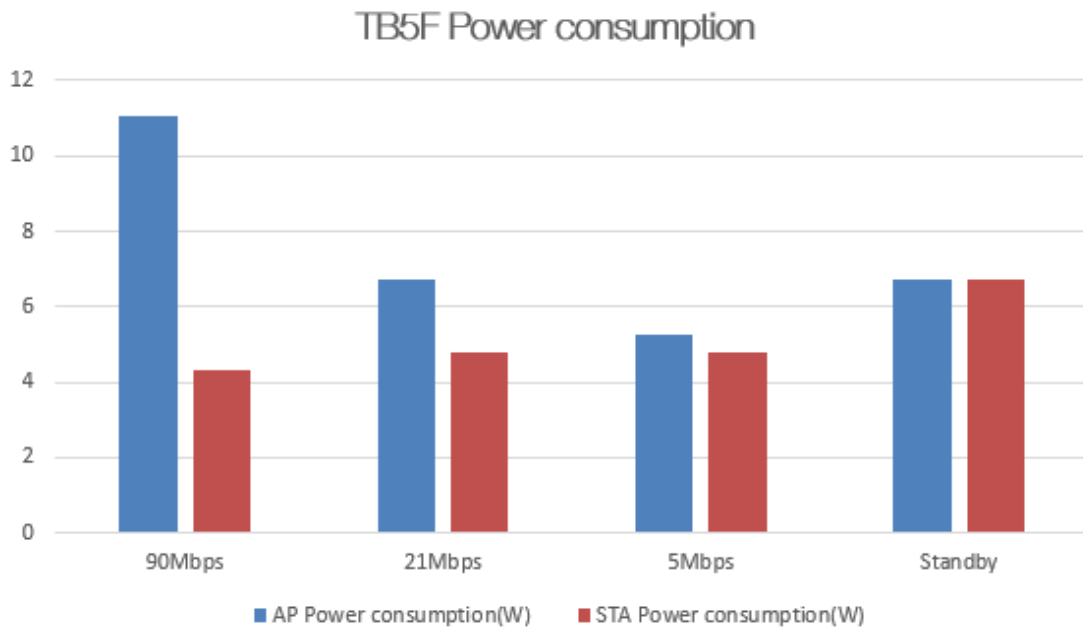
The application of wireless security video surveillance in factory and warehouse

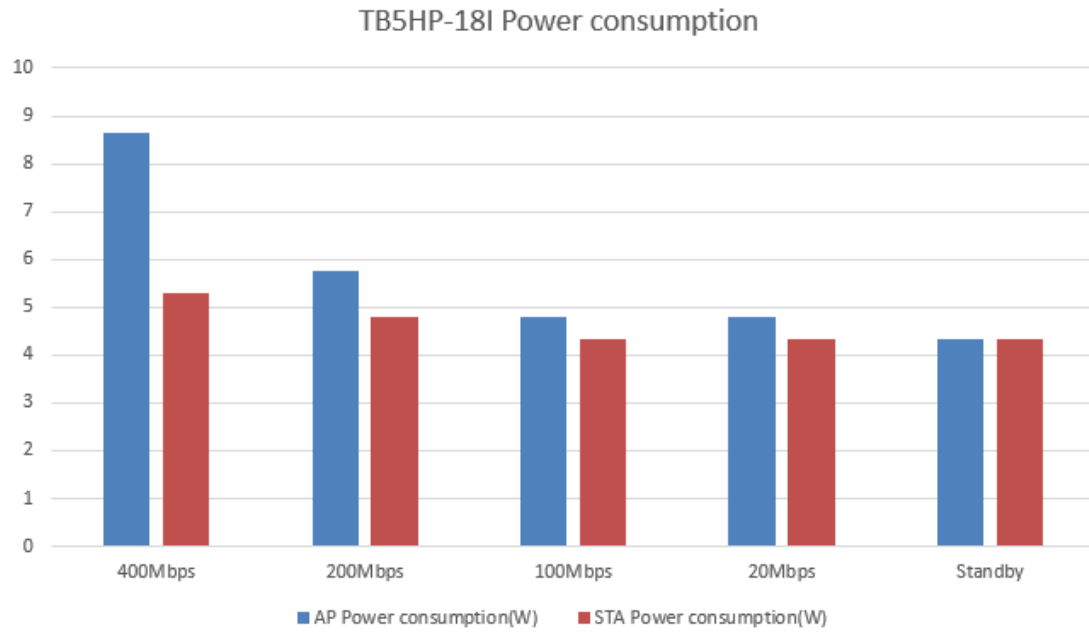
Throughput

AP: TB5F; CPE: TB5E



Power Consumption





Application Case

