

# China manufacturers trust Wi-Fi CERTIFIED™ for critical functions



## Wi-Fi® improves warehouse manufacturing efficiency

Manufacturing facilities are often large and contain a variety of devices with many moving parts that require connectivity to perform precise tasks. Wi-Fi CERTIFIED™ devices have proven to be a vital component in helping manufacturers improve operational efficiency, increase return on investment, and speed the delivery of products and services to consumers. Wi-Fi provides key benefits that are critical to any manufacturing space, including higher data rates, increased capacity, consistently high performance in environments with many devices, and improved power efficiency.



Two large manufacturers in China harnessed the benefits of Wi-Fi in 2020 by installing Wi-Fi CERTIFIED access points (APs) throughout their facilities. As a result, they have enjoyed networks that are constantly connected and which provide complete wireless coverage throughout each facility.

## Panasonic Wanbao Home Appliances relies on Wi-Fi for inventory control

Located in Guangzhou, China, Panasonic Wanbao Home Appliances Electric Iron Guangzhou Co. Ltd. manufactures and distributes household electrical appliances. The facility was established in 1993, and boasts an area of 81,000 square meters with a staff of 2,100. The plant can manufacture 13 million units per year, producing household electrical appliances, such as electronic razors, electric toothbrushes, and hair dryers.

Inside the warehouse, staff relies on wireless coverage for their Keyence handheld mobile computers to digitally manage the movement of materials and inventory control through barcode and touchscreen operation. Faced with lapses in network connectivity that negatively impacted production, the company installed 200 Ruijie Wi-Fi CERTIFIED APs at its facility to improve productivity and efficiency. After the installation of these APs, the packet loss rate for the handheld computer usage while in motion is now often as low as 0.1 percent due to a highly reliable connection speed.

## Suning Cloud Warehouse employs Wi-Fi to process more than a million packages per day

The Suning Cloud Warehouse based in Zhengzhou, also known as the Suning ecommerce warehouse, aims to be the largest ecommerce warehouse in Asia. With a picking rate of 1,200 pieces per hour per employee, the warehouse processes 1.81 million packages per day. This number is 10 times the number of packages processed at other ecommerce warehouses in China.

Employees use handheld barcode scanners for picking and packaging order items. The scanners communicate with the central inventory server through Wi-Fi connections. This process requires steady data linkage and bandwidth as employees move across the warehouse with their scanners. Using the Ruijie industrial roaming strategy, which adopts advanced single frequency network technologies, the overall data packet loss rate has been reduced to 0.1 percent. This extremely reliable network is powered by Wi-Fi CERTIFIED devices.

## Wi-Fi CERTIFIED™: Technology to trust

Since 2000, Wi-Fi Alliance has been driving the adoption and evolution of Wi-Fi through the Wi-Fi CERTIFIED program. The Wi-Fi CERTIFIED logo designates products with proven interoperability, backward compatibility, and the highest industry-standard security protections in place. Wi-Fi CERTIFIED devices can communicate with previous and future generations of Wi-Fi technologies, enabling a seamless, interoperable experience with a multitude of other Wi-Fi devices for years to come.



Learn more: [www.wi-fi.org/wi-fi-certified-6](https://www.wi-fi.org/wi-fi-certified-6)