

Special Feature

Altai Super WiFi – Automated Warehouse Enabler

In order to enhance operational efficiency and increase productivity, many e-commerce operators, logistics companies and manufacturing plants nowadays have deployed Automated Storage and Retrieval Systems (AS/RS) and Automated Guided Vehicle (AGV) systems. However, the wireless network stability is always a key concern since the facilities are huge in area (typically few thousand square metres) with large number of moving devices such as AGV (over 100). The challenge becomes even bigger when the venue environment is more complex and everchanging. In fact, Altai Super WiFi is simply the best wireless solution to support a reliable wireless connectivity for such high mobility environment.

Super Coverage – With the patented smart antenna technology, Altai's Super WiFi base stations can provide an unprecedented coverage, up to 1.7km to normal clients in LOS outdoor environment. Thanks to such super coverage capability, only a single Altai WiFi base station installed at one corner of a logistics hub can provide a blanket coverage over

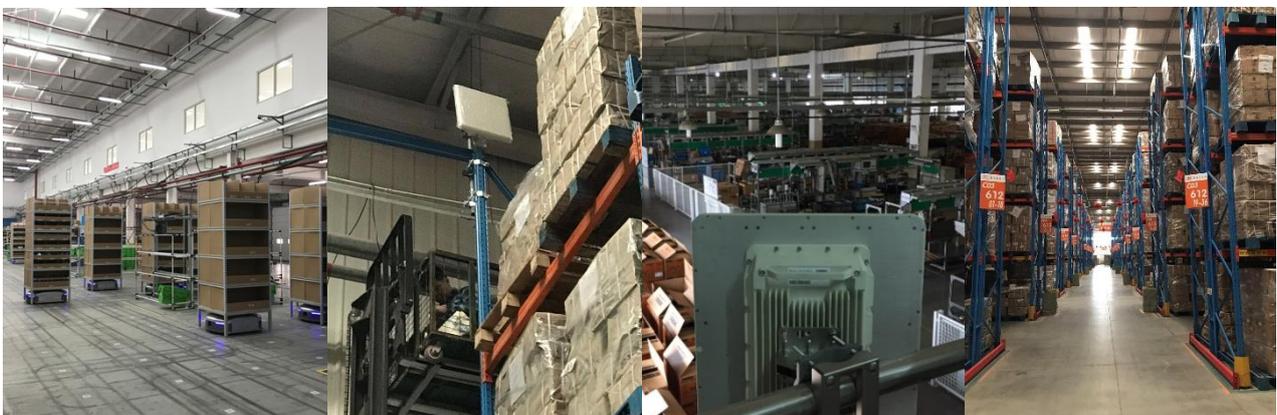
8,000 sqm without any blind spot. In contrast, around 20 APs would be required when using traditional AP.

Coverage Redundancy – Due to heavy workload and round-the-clock operation, automated warehouse operator cannot tolerate any downtime for their control system. Therefore, overlapped coverage is essential for a reliable network solution. While Altai's APs are able to provide large area coverage, overlapped coverage is much simpler to achieve than any other wireless solution. It simply requires another AP to be installed at the opposite corner of the initial AP. Both APs could provide full coverage to the warehouse individually.

Fast Roaming – While multiple APs have been installed in a warehouse, pauses or interruptions are often caused by AGV roaming from one AP to another. Thanks to the super large coverage offered by Altai Super WiFi, the number of APs required can be minimized and hence the roaming frequency. Altai has also enhanced the roaming mechanisms that help reducing roaming time to millisecond level. Furthermore, Altai's purpose-built industrial-grade CPE, VX200, supports a variety of configurable roaming parameters such as scanning interval, RSSI threshold etc. according to the actual environment in order to achieve the optimal roaming performance.

Dual-band Coverage and Channel Planning – Because of the limited number of available channels and high interference in 2.4GHz band, more and more AGVs start to support 5GHz too. A future-proof WiFi network for an automated warehouse should support both 2.4GHz and 5GHz simultaneously. Altai Super WiFi APs support dual-band dual-concurrent (DBDC) operation.

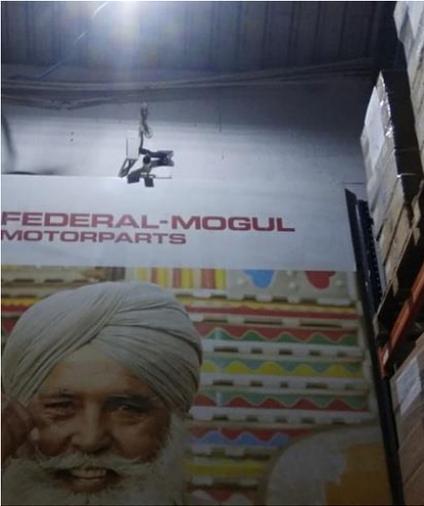
AGV Capacity Planning – Not only do Altai's APs have super large coverage, but they also support high capacity (concurrent clients). When in DBDC mode, each Altai AP can support up to 160 AGVs simultaneously.



Company Update

Altai Replaced a Well-known Competitor in Federal-Mogul Motorparts' Warehouse in India

In a recent deployment for Federal-Mogul Motorparts' warehouse in India, Altai Super WiFi has replaced the solution from a well-known wireless network infrastructure provider.



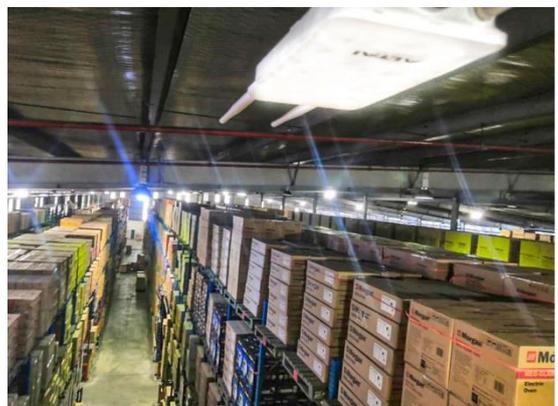
Federal-Mogul, a leading global supplier to original equipment manufacturers and the aftermarket with nearly 55,000 employees globally, has been acquired by Tenneco in 2018. In this project, Altai's indoor affordable Super WiFi CPE, C1n, has been selected due to its outstanding price/performance ratio. A total of 12 units of C1n are deployed in the warehouse replacing 34 units of a well-known brand's AP, resulting in even better coverage. The

reduced number of AP has saved much of the cabling cost for the customer and Federal-Mogul is fully satisfied by the deployment result.

Altai Solution Trusted by a Leading Logistics Organization in Malaysia for Decade

Altai has just completed a new deployment in Malaysia for another warehouse of CJ Century, a leading provider of supply chain solutions. Starting as a forwarding agent in the 1970s, the Group has since diversified into integrated logistics, oil logistics, procurement logistics and data management solutions.

With the outstanding RF performance and cost effectiveness, Altai's brand has been trusted by the company for over ten years, while Altai's C1 series and CX200 being selected and deployed in ten of CJ Century's warehouses over the years in Malaysia by Aglotel, Altai's Malaysian partner. The devices provide reliable and stable wireless



network coverage for the warehouses and enable the CCTV system for certain sites. Altai's solution has definitely facilitated the company's management on their multiple locations with quick and clean installation by Aglotel.

Contact Altai to automate your warehouse or manufacturing plant today by Email → info@altaitechnologies.com

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