

case study

Revolutionizing Aircraft Landing Gear Maintenance with Advanced RFID Solution



Industry

Field Service

Application

Maintenance Management

Product

RS804 + RFID Utility

Case Description

Our client is an aircraft landing gear maintenance service provider in the Asia Pacific region. This organization is renowned for its comprehensive range of services encompassing inspection, repair, maintenance, overhaul, and leasing of aircraft landing gear systems.

Challenge & Solutions

The maintenance process involved intricate procedures that were difficult to track due to the absence of a sophisticated information management system. Issues included unclear processing progress due to manual recording and difficulty in tracking the location of maintenance items in the large factory area.

Unitech offers an integrated RFID solution that includes the RS804, a 4-port RFID UHF IoT Reader, strategically positioned RFID antennas, and RFID tags attached to items, all of which are further enhanced by advanced RFID utilities. This solution not only simplifies complex processes but also ushers in a new era of efficiency through its real-time tracking capabilities and streamlined management of extensive maintenance tasks.

Reasons to Choose Unitech RS804 RFID Reader

- **Versatility and Connectivity:** It's a 4-port RFID UHF fixed reader, suitable for IoT applications with various connectivity options like USB, RS232, RJ45, and 4 GPIO interfaces, ideal for sectors like logistics, warehouse and manufacturing.
- **Superior Performance:** Equipped with the advanced Impinj R2000 chip, it offers fast, accurate reading up to 900 tags per second, supporting a wide frequency range and conforming to global standards.
- **Durability and Easy Deployment:** Designed for challenging environments with IP52 water and dust resistance. Its compact design and Power over Ethernet (PoE) feature allow for easy installation in large spaces.
- **Support for Diverse Software SDK and RFID Utilities:** The RS804 supports a comprehensive software development kit (SDK) and RFID utilities, enhancing its adaptability and integration capabilities across various systems and applications.

Benefits

- **Accurate Process Tracking:** RFID enables precise monitoring and recording of maintenance items' processing time at different stations.
- **Efficient Progress Management:** Streamlines the management of repair timelines and progress, reducing reliance on manual record-keeping.
- **Enhanced Location Identification:** Facilitates easy and quick location of items in the vast workshop area.
- **Time-Saving in Item Retrieval:** Significantly reduces the time spent searching for specific maintenance items, boosting overall operational efficiency.



RS804 and RFID Utility