



INDUSTRIAL ROUTER INTEGRATED INTO FORKLIFT TECHNOLOGY



INDUSTRY: INDUSTRIAL AUTOMATION - ROBOTICS
LOCATION: AUSTIN, TX (USA)

BACKGROUND

An automated “smart” forklift company located in Texas has partnered with Antaira Technologies to provide communication products that enhance their automated warehouse technology. The company believes that intelligent, robotic forklifts will become part of the automation landscape. Products like these will help our economy, reduce environmental impacts, provide desirable jobs, and impact social services. This process is accomplished through enhanced automation allowing the company to use information that is shared across an entire enterprise - the system effectively moves product whether it resides on shelves, trucks or elsewhere in the facility.

THE CHALLENGE

Within their test warehouse there are large bays where trucks back their trailers into and automated vehicles are deployed to handle the loads. They have integrated several different technologies such as vision cameras, Lidar, scanners & GPS. Vehicles must identify products with barcodes and use positional information to move pallets/products within their system. However, in order to operate efficiently, communication and data is central to this solution. By deploying reliable Ethernet switches and using wireless technologies, challenges can be tackled head-on.

THE SOLUTION

Instead of having to interact with the fulfilment process, this system handles it in an automated predictable fashion. Antaira Technologies helps the customer rise to the challenge by incorporating the ARS-7253-5E-AC into their forklift technology. This provides the connectivity required to their manufacturing system using a wireless connection to provide data. With this product, it boasts network robustness, stability, and a wide network coverage with a wide voltage range that works with mobile systems. It also is capable of operating in different modes, which makes it suitable for a variety of wireless applications including long-distance deployments, such as a large fulfilment center. Due to its outstanding features, the ARS-7235-5E-AC is perfect to solve this challenge as a wireless routing device to operate efficiently.

ANTAIRA'S PRODUCT SOLUTION

ARS-7235-5E-AC

Industrial 5-Port Gigabit Ethernet with Dual Radio IEEE 802.11
a/b/g/n/ac Wireless Access Point/Client/Bridge/Repeater/Router

- Industrial 2x2 MIMO
- Supports 5*10/100/1000Base-TX WAN/LAN Ports
- Tx Power 25dB for 2.4GHz
- Tx Power 24dB for 5GHz
- Standard Operating Temperature: -10° to 60°C

