

HARTING MICA Case Study - Asset Tracking for Containers and Freight Yards



Pushing Performance

People | Power | Partnership

The Application

A transportation company needed to automate the management of their transport containers and trains in a freight yard. Previously, they managed all of the data through manual entry in Excel spreadsheets. Often simple questions required comparing several long spreadsheets that could be outdated or incorrect. Some of these issues included: location of railway car on a track, location of a specific container on a train, when or if a car is due for maintenance.

The solution needed to provide all data in a glance and automatically update in real time. In addition, the solution needed to be suitable for an industrial, high-vibration environment and able to be processed at speeds up to 75 mph.

Our Solution

The solution was a HARTING MICA RF-R300 combined with a HARTING Industrial RFID system. Robust UHF passive transponders were attached to the train via a metal bracket. These transponders were suitable for use on metal and robust enough for an outdoor environment.

The transponders were read via antennas that could process data traveling at 75 mph. The data was then sent to the HARTING MICA RF- R300, which read, processed and visualized all the data in the HARTING Ha-VIS Middleware.

The result was a rugged, automatic and paperless system that provided all necessary information at a glance.

This saved countless hours searching for information in long spreadsheets, and prevented errors caused by manual tracking.



HARTING MICA® RF-R300 Complete RFID Starter Kit

Learn more at: [HARTINGMICAStarterKits.com](https://www.hartingmica.com/starterkits)

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