

Railway Door Control System

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Product Solutions:

[NPort IA5150/5250 Series](#)

1 and 2-port serial device servers for industrial automation

Introduction

In railway applications, the engineer activates the car doors each time the train stops at a station. For this reason the client decided to build a network system on the trains to extend the communication distance, and use the NPort® IA5250-T to create reliable serial-to-Ethernet communications.

To enhance the reliability of the system, our client requested the following specifications for the door control system.

- Small size, since railway cars have a limited installation space.
- Vibration and shock proof since trains are constantly subjected to shock and vibrations.
- Wide operating temperature for systems that are subjected to harsh environments.

Moxa Solution

Moxa's NPort® IA5250-T is a DIN-Rail mountable industrial-grade device server with two 10/100BaseTX ports. To endure harsh environments, the NPort® IA5250-T supports an operating temperature of -40 to 75°C and relative humidity between 5 and 95%. Installation space in railway cars is usually quite limited, which is why we designed the NPort® IA5250-T with cascading Ethernet ports for easy set-up and to save space. In addition, we designed the NPort® IA5250-T to be vibration and shock resistant (complies with IEC60068-2-6 and IEC60068-2-27).

Why Moxa

- Redundant DC power inputs
- Cascading Ethernet ports for easy wiring
- Reliable serial-to-Ethernet data transmission
- Din-Rail mountable to save space

