



CUSTOMER:

A leading French railway company



SYSTEM INTEGRATOR:

éolane

www.eolane.fr

“By embedding Sixnet managed industrial switches to our mother board, we were able to seamlessly create a custom solution that ensures continuous communication between subway trains and central operations in Paris.”

- Yves Nortier, Project Manager

LOCATION:

Paris, France

INDUSTRY:

Transportation: Subway

PROJECT SCOPE:

éolane, a French Original Design Manufacturer / Original Equipment Manufacturer, was commissioned to design an embedded solution for the transmission of audio-video data between subway trains and the ground network in Paris. In order to transmit high-speed video for passenger surveillance and security purposes, the solution must allow each train to maintain continuous communication with the control center as it travels down the railway track.

SOLUTION:

The solution éolane developed and deployed uses wireless (Wi-Fi) data transmission to reliably manage audio-visual flow between trains in transit and central operations. To ensure continuous communication and real-time information transfer, the solution integrates:

- Two Sixnet 6 port managed industrial board-level switches
- Two Wi-Fi antennas at each end of the train
- A router for data transmission

The Sixnet switches are mounted to a mother board designed by éolane. Each mother board is then incorporated with a Eurofer rack that meets stringent railway standards.

BENEFITS:

éolane was able to save time and money by embedding Sixnet's 6 port managed industrial switches to its mother board. The end result:

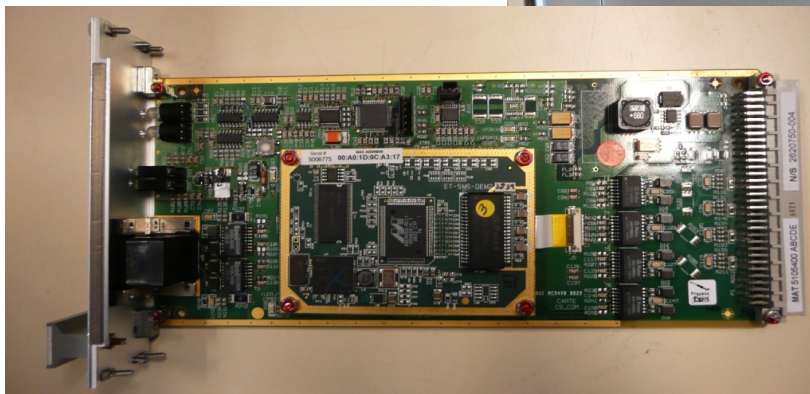
- Provides fast wire-speed switching and intelligent message routing
- Enables seamless plug-and-play operation
- Supports extreme conditions and -40 to 75°C temperatures
- Ensures continuous communication with 1,000,000+ hours MTBF
- Complies with strict railway standards

PRODUCTS:

Part Number	Description
ET-5MS-OEM	6 Port Board-Level Industrial Ethernet Switches



*éolane mother board
is integrated with a Eurofer rack*



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