

Reference

Project Partner

**Normetro
Bombardier Transportation Portugal
Porto, Portugal**

72 Light-rail vehicles

Project Highlights

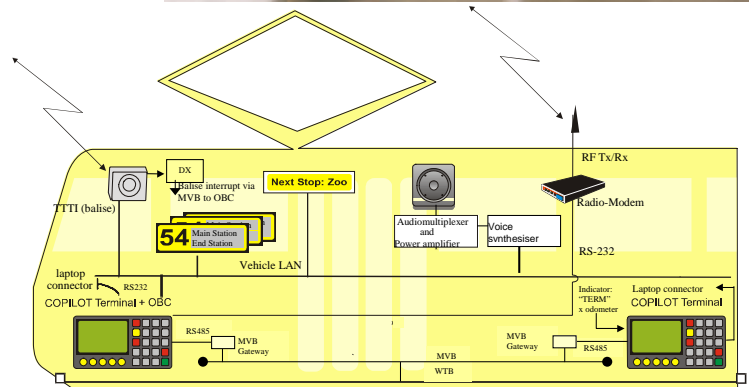
- COPILOT softkey on-board computer
- Interfaces on-board the vehicle (odometer pulse, door signal, etc.) via MVB (Multifunction Vehicle Bus)
- Transponder (“balise”) – via MVB and IBIS vehicle bus
- Control of on-board and wayside displays and announcements
- Train LAN interface
- Wheel flange lubrication (oil pump controlled via MVB)

Interface to:

- TMS (Train Management System) by Bombardier
- Radio system MORSE by RACOM
- ATP system (Automatic Train Protection)

Future developments:

- Extending the rail network
- Additional stop information for passengers about connecting train services
- Integration of a DRU (Data Recording Unit)



Bombardier Transportation is a member of the Normetro consortium which plans to deliver the complete Porto light-rail system (with tunnel, stations, routes, vehicles, etc) and run all operations for 5 years. Amongst other things Bombardier will be responsible for the “signalling system”, which includes operation and switch control, signals, and vehicle equipment, including on-board computers.

INITs Products und Systems

- COPILOT
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