



More than 10.000 vehicles
are equipped with our smart
mobile radio cab equipment



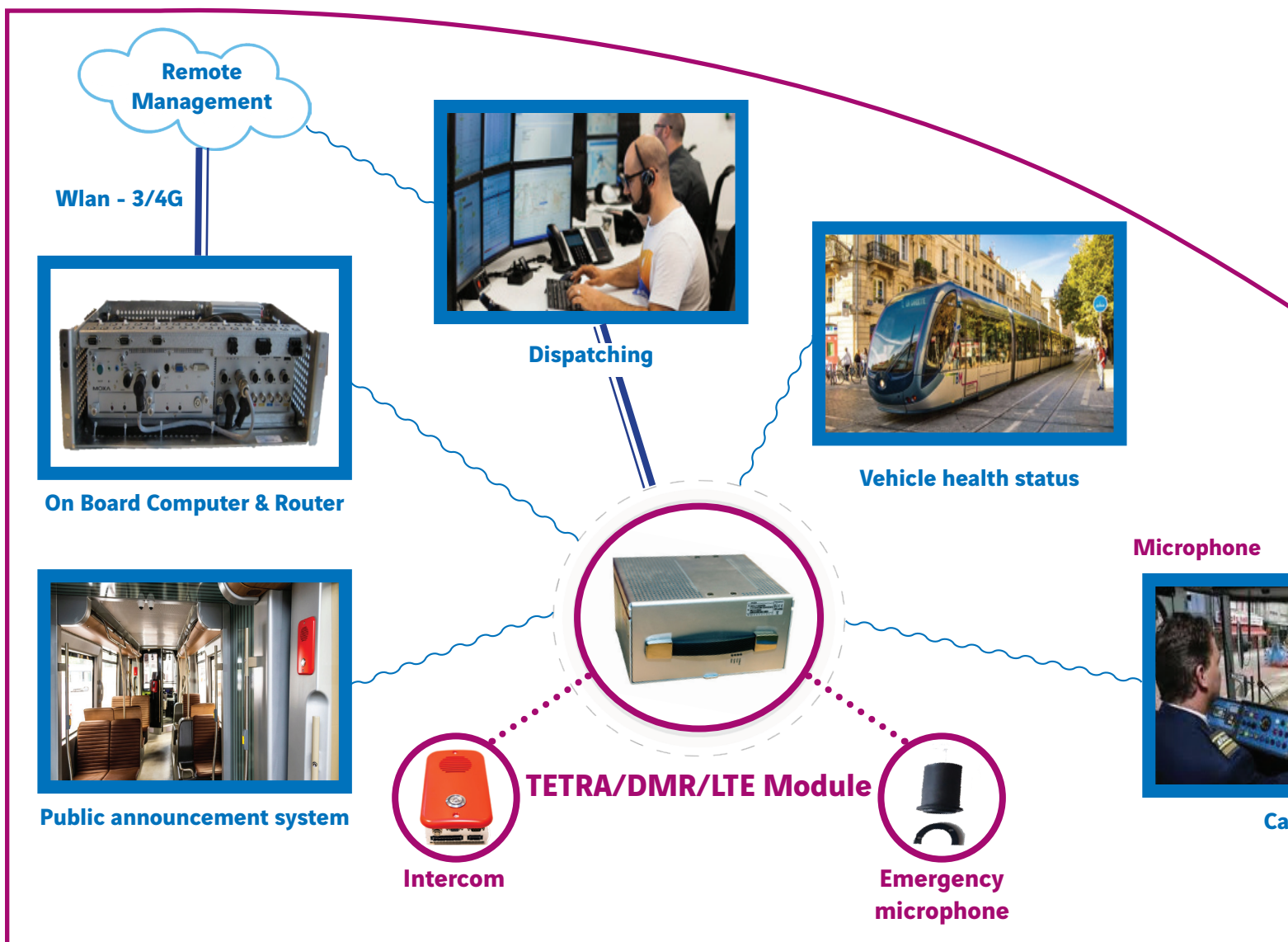
**FULL RANGE OF INTEGRATED
COMMUNICATION SOLUTIONS**

Futureproof Secure Communication Technology

Our expertise covers the full range of radio communication infrastructure, embarked rolling stock radio and voice equipment, driver consoles, mobile radios, telephony and dispatching infrastructure which allows us to design and integrate solutions perfectly suited for the needs of public transport. For every type of indoor environment, tunnel or underground environment which needs internal radio or cellular coverage, we have the appropriate solution. We have many references such as RATP, RET, Infrabel, SNCB, STIB and several bus and tram manufacturers.

Radio | Audio | Data Communication Solutions

The RadioCab's are **universal telecommunication on-board equipment**, designed for voice and data communication installed in the cabins of automated metros, trams, trains and busses. It enables high quality and reliable voice communications between drivers, passengers, control centers and controllers in the field. It enables also the reception and transmission of various data such as alarms from/to management servers and external systems.





SOLARIS BOMBARDIER



RadioCab's modular systems are based on 3 main components:

(1) The RadioCab

- ▶ **TETRA, DMR** or **LTE** radio (chosen by the customer)
- ▶ Digital management of the radio
- ▶ **Smart Audio** management system for radio/PA communications
- ▶ Audio coms are allowed in analogue and **VoIP**
- ▶ Communication interfaces (**Ethernet, Serial, CAN...**)
- ▶ **Digital I/O** for sensing the vehicle



- (2) The Interface rack allowing customization to specific vehicle interfaces. Thanks to its quick release mechanism, replacement in maintenance could be performed in less than two minutes.
- (3) MMI devices (analogue or digital). In vehicle refurbishment, existing interfaces can be reused. Axians proposes two smart systems with 3" display or 10" display.

As the complete design and software development is performed at Axians, full customization of the system is allowed to interface with vehicle and dispatching.



De Lijn has awarded Axians the design, integration and deployment of a DMR Tier 3 network & dispatching infrastructure, mobile radio's and on-board cab radio's. This system is based on regional multisite simulcast trunked technology, including more than 160 base stations and more than 4.000 radio modems.

The system will smoothly migrate the current analog trunked network to DMR Tier 3 technology. Simulcast technology ensures high reliability and optimizes frequency use.

The onboard equipment will manage data and voice communication over DMR through Axians' DMRCab onboard module.

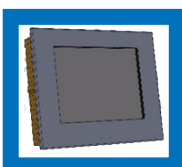


Cab-loadspeaker

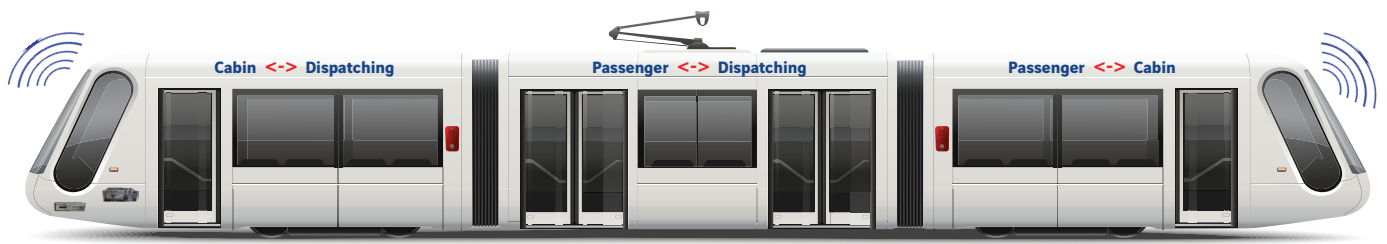


bine

MMI



Smart Public Transport Intercom Module



The family of Smart Public Transport Intercom Modules (PUTIM) is based on two major products:

- PUTIM_BASE** Simple intercom module supplied by PoE
PUTIM_PA Base module plus 2x2 channels loudspeakers for Public Address

Its major features are:

- ▶ Software configurable
- ▶ VoIP communication module
- ▶ Noise cancelling
- ▶ Simple and secure passengers interface
- ▶ Small size | Low power
- ▶ EN50155 & UNECE 10 certified



Thanks to its complete mastery of design, Axians can adapt PUTIM layout to vehicle design. When connected to Axians RadioCab, it provides a complete and secure vehicle audio and radio management function for rolling stock.

At Axians, our customers are always our priority

The Axians TetraCab product line has always been the benchmark for railway TETRA/LTE/DMR communication systems. It combines proven solutions with advanced innovations in order to supply customers throughout the world with the safest and most cost-effective communication system. Thanks to over 30 years' experience and our investment in R&D, we are masters of the latest technology and provide our customers the best "Service".

axians

Kruiskouter 1, B-1730 Asse

Tel: +32 2 529 62 11 - email: info.telecom.be@axians.com

www.axians.be

