

CONTROL SYSTEMS FOR SAFETY AND HIGH PERFORMANCE



DA-Group designs and manufactures smart, high performance and reliable products for public transportation. Our solutions provide vehicle manufacturers and operators with computer control systems in an open IP network.

The vehicle computers work as part of the network managing all devices in an open IP network, including the displays, driver control panels, CCTV cameras and Public Announcement systems. The control system interfaces with outer networks.

USER INTERFACE



The user interface is an integrated system for drivers to control and manage vehicle operations.

The high-brightness LCD displays have touch screens and can be added with separate push buttons.

BENEFITS

- **Open IP** offers an easy customization for retrofitting or new installations.
- **Long product life cycle** with a flexible and scalable system for the future.
- **Increased passenger safety and satisfaction** with visualized information.
- **The robust and reliable system** with highest safety and quality standards EN 50155, EN 61373, EN 50121 (3-2), EN 45545, CE

COMPUTER UNIT



The operator can manage all real-time and timed information (data, audio, videos) from one central computer. The computer receives and shares operator transportation and vehicle data to display the information on various devices, such as passenger information and advertising displays as well as driver control panels.





In addition, the system interfaces with third party devices, such as cameras and speakers. The system is the solution for both the new as well as retrofit and modernization projects of existing fleet.

Onboard PIS Equipment and Integrated Solution

Cabin Equipment

User Interface

- HMI (touch panel)
- CCTV monitor
- Integrated vehicle computer (PIS/PA server)

Mirror display

Microphone and cabin speaker

Driver phone

Saloon Equipment




LCD displays




Intercom

Audio announcement




360° / 120° cameras



Passenger WiFi

Outdoor and Indoor LED Displays



Flat LED displays




Curved LED displays




Ultra slim LED displays


Network Components and Other Equipment




Train Link Modem




Passenger Counting



CCTV recorder



Wireless Data Transmission Link



Fire Detection

2-wire Ethernet, 70 Mbps

Wireless 1 Gbps

UIC WTB / MVB gateway

Mobile router

Wireless 1 Gbps

Redundant Network

Train coupling

Connectivity

Redundant Network

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With our PIS system all devices can be managed in an open IP network, including the displays, driver control panels, CCTV cameras and Public Announcement systems. The control system interfaces with outer networks.

Excellent choice for new installations or retrofit and modernization projects. Contact us at sales@da-group.fi!