

# PA SOLUTION

## PUBLIC ANNOUNCEMENT SYSTEM FOR TRAINS



### THE PA AUDIO SYSTEM

In train modernization projects or new builds, passenger compartments will be fitted with a Public Announcement system for improved passenger information.

The digital audio system for railway and rolling stock provides all the essential requirements of vehicle audio communications.

- Automatic acoustic announcements to passengers from a central information system
- The drivers communicate to passengers via an intercom between the driver and the conductor
- Passenger emergency communication with the conductor and the driver

### THE COMPONENTS OF THE PA SYSTEM

- IP AUDIO AMPLIFIER
- IP AUDIO ENCODER
- DRIVER PHONE
- EMERGENCY PHONE
- SPEAKERS

### BENEFITS

- Digital audio system for railway and rolling stock
- Modular system to be configured according to project requirements
- Modern European standard technologies

### IP AUDIO AMPLIFIER



- Ethernet interface with indicated connection to interface
- Integrated dual/channel low frequency audio amplifier
- Speaker output for single direct circuit and two circuits
- Control via Ethernet line

### Technical Information

- EN 50155, EN45545-2
- Power supply 24 VDC
- Operating temperature -40 to +70 °C
- Protection rate IP20
- MTBF >150 000 h
- Dimensions 157 × 66 × 112 mm

## IP AUDIO ENCODER

- Power supply 24 V DC POE power supply according to IEEE 802.3af
- 2 x Digital input
- 2 x Output for LED indication
- Passive cooling
- Interface for RRAS/GNM connection



## Technical Information

- EN 50155, EN45545-2
- Power supply voltage 16.8V to 33.6 V DC
- Operating temperature -40 to +70 °C
- Dimensions 205 × 102 × 45 mm
- Protection rate IP20
- MTBF >150 000 h
- Ethernet 1 x 10/100 Mbps

## EMERGENCY PHONE

- Digital transmission of audio signal over Ethernet
- LED status indication
- Microphone and speaker IP65
- Stainless steel panel for mounting into the wall
- Interface for RRAS/GNM connection



## Technical Information

- EN 50155, EN45545-2
- Power supply 16,8V to 30.0 V DC, PoE,802.3af
- Operating temperature -40 to +70 °C
- IP rate front/rear IP54/IP30
- IK10
- Dimensions 120 × 200 × 63 mm
- MTBF >150 000 h
- Interface 1 x Ethernet, 100 Mbps

## DRIVER PHONE

- Digital transmission of audio signal over Ethernet
- 2 x button control, 1 x button on handset
- 1 x speaker output for audio monitoring
- Stainless-steel panel for mounting into the wall



## Technical Information

- EN 50155, EN45545-2
- Power supply 16,8V to 30.6 V DC
- Operating temperature -40 to +70 °C
- IP rate front/rear IP40/IP20
- IK03
- MTBF >150 000 h
- Ethernet 1 x 10/100 Mbps