



Product size and connectors may vary depending on configuration.

TrainWise® Public Address Amplifier

The TrainWise® Public Address (PA) Amplifier (PC07) has four independently controlled digital audio output channels to drive multiple speaker arrays.

High fidelity and clarity is achieved by dynamically adjusting for ambient noise and matching the output impedance of the audio speaker lines. A built-in gateway allows the bridging of different network topologies.

Total units ordered/delivered: 82

Key benefits

Versatile PA amplifier. The PA amplifier has four independent outputs for fault tolerance. Each channel can continuously drive 10 Watts (50 Watts peak) into 4 – 16 Ohms, with a Total Harmonic Distortion of <1%.

High availability. Multiple PA amplifiers can be configured in a redundant configuration so that passenger announcements are un-interrupted by the lost of one amplifier.

Gateway functionality. Layer 3 routing between the car network and the Passenger Information System (PIS) components situated on an Ethernet Communications Ring. Provides application-layer functions, such as system synchronization, time services, fault monitoring, and protocol translations.

Clarity. Clear, crisp audio from every speaker. Live and recorded audio announcements are noise-free and unaffected by the length of the train.

Background noise compensation. Dynamically adjusts power output based on the background noise levels in the passenger cabin. Matches output impedance to remove the need for the bulky 70V transformer found in most train speakers.

Analog audio trainline support. The PC07 can act as a gateway between analog audio trainlines and the various car Ethernet networks.

Main characteristics

- » Up to eight audio output channels, each driving 10 Watts into a speaker array
- » Low distortion audio outputs, THD<1%
- » Secure web server providing remote access (PTE/BTE, operations, etc.)
- » Compliant with IEEE and IEC rail design standards
- » Configuration ID inputs for encoding equipment location, car number, or other identification
- » Easily integrates with other TrainWise components

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