



The PD-PAAMP Box is a amplifier for internal and external speakers for busses, trams and subway cars.

It also distributes power to infotainment monitors and infotainment servers.

The Power Distribution (PD) Box with a 2-channel audio amplifier is available in a powder coated steel case.

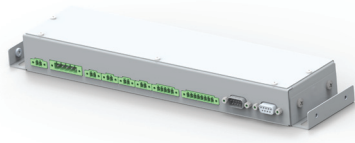
The PD Box optimizes the installation and cabling of infotainment systems in busses, trams and subway cars and features a two-channel audio amplifier for inside and outside speakers with priority.

### PD Features:

- Ignition related power to displays:  
Distribution to up to 4 display units to avoid battery drain at power down sequence
- Minimize inrush current:  
By sequentially enabling of outputs after ignition achieve lowest inrush current (100 ms delay)

### Audio Amplifier Features:

- 2 x 15 W audio amplifier class D
- AMP Out Left and Right with one MUTE pin each (configurable high or low active) for priority control
- Digital I/O connector for MS-700 start-up and shutdown
- Audio IN pre-AMP on separate SUB-D connector



**Power Distribution and Amplifier  
PD-PAAMP**

**Technical Data**

**Application:** Amplifier for internal and external Speakers. With priority control. Optional power distribution for connected displays and server.

**Mechanical Data:**

Height: 39 mm  
 Width: 295 mm  
 Depth: 76 mm  
 Weight: 1.5 kg

**Electrical Data:**

Supply Voltage: 9 V to 36 V DC with reverse polarity protection  
 Power consumption (AMP): 35 W  
 Power consumption (Power Distribution): 1 W

**Operating Temperature:**

Amplifier: -40°C to +60°C  
 Power Distribution: -40°C to +85°C

**Voltage Outputs:**

Server Output: 1x 24 V DC (+/- 30%)  
 Displays Outputs: 4x 24 V DC (+/- 30%) with sequential power up (100ms delay) to minimize inrush current  
 Power Output Server: 40 W @24 V DC  
 Power Output Displays: 40 W @24 V DC each

**Status LEDs:** 1x Power IN, 1x Power OUT, 1x Audio Left Enabled, 1x Audio Right Enabled

**Audio AMP:** 2 Channel (15 W output each), Class D  
 Priority control with high endurance mechanical relays for Text-to-Speech  
 Pass through mode

**Certifications:** EN50155  
 EN50121-2-4  
 EN60950  
 E1  
 CE

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