

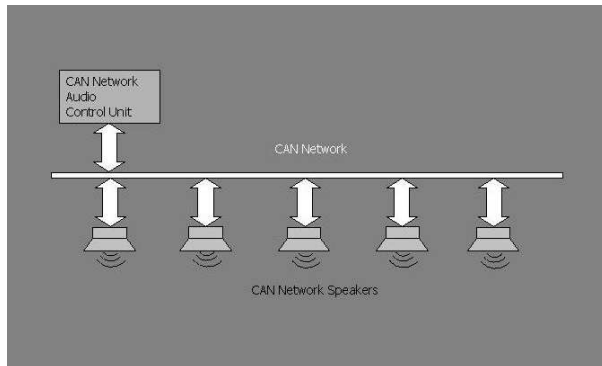


# AMT 5 Multi-Zone Passenger Announcement System



## DESCRIPTION

The AMT-5 is a self-contained, individually addressable powered Speaker/Amplifier combination for Passenger Announcement systems. The AMT-5 uses the CAN bus present in most modern vehicles to distribute audio and control signals from the vehicle controller to the speakers.



The CAN (Controller Area Network) is a message oriented multi-master protocol for quick serial data exchange for real time control applications in the automotive and transport industries.

The AMT-5 has an inbuilt 6-Watt class D amplifier and optional MP3 decoder, digital inputs and local storage for event-triggered pre-recorded announcements.

Each speaker is individually addressable and a network of AMT-5 speakers can be grouped into any number of zones. Source audio is delivered to the speakers through the AMT-5 Control unit or integrated into a vehicle control system using the AMT API software and drivers.

The AMT-5 speakers also come with automatic volume compensation, self-diagnostics and an optional built-in hearing aid loop.

## OPERATION

The AMT-5 powered speakers operate as a group interconnected using a dual redundant CAN Network within a bus, train or other passenger vehicle. The CAN network offers excellent error handling and the ability to deliver perfectly timed digital audio to every speaker in a group.

Every speaker has an address within the network and is capable of belonging to one or more sound delivery zones. Each speaker automatically adjusts the volume to compensate for background noise and monitors the delivery of announcements through its in-built microphone to provide a running diagnostic of each speaker/amplifier unit.

## FEATURES

- ✓ Dual redundant CAN 2.0B data connectivity
- ✓ Dynamic Self Diagnostics
- ✓ Speakers can be grouped into different audio zones
- ✓ Per speaker Background noise compensation
- ✓ API/SDK allows integration to third party vehicle control systems



## CONTACT

**Trantek Systems Pty Ltd**  
Unit 3 99-101 Anzac Avenue  
West Ryde NSW 2114  
Australia

☎ Tel: +61 2 9808 6166

☎ Fax: +61 2 9808 6199

✉ Email: [sales@trantek.com.au](mailto:sales@trantek.com.au)

🌐 Web: [www.trantek.com.au](http://www.trantek.com.au)

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## TRANTEK

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West Ryde NSW 2114  
Australia

Tel: +61 2 9808 6166  
Fax: +61 2 9808 6199  
Email: [sales@trantek.com.au](mailto:sales@trantek.com.au)  
Web: [www.trantek.com.au](http://www.trantek.com.au)

	PA Digital Speaker	PA DIGITAL Speaker	PA Digital Speaker and Emergency Call Box	PA Digital Speaker and Emergency Call Box with Image Capture	PA Digital Speaker and Emergency Call Box with Video Capture	Passenger Entertainment Video and Information Display
AMT-5 Model	V1	V2	ECB-A	ECB-I	ECB-V	PID
6-24V AC/DC 50/60Hz power	✓	✓	✓	✓	✓	✓
CAN 2.0B bus	✓	✓	✓	✓	✓	✓
Ethernet 10baseT with PoE						✓
PCM (G.703) audio playback (1)	✓	✓	✓	✓	✓	
Microphone	✓	✓	✓	✓	✓	
PCM (G.711) talkback channel (2)			✓	✓	✓	
6W RMS Class D amplifier	✓	✓	✓	✓	✓	
6W Speaker	✓	✓	✓	✓	✓	
Indicator LED (power/fault)	✓	✓	✓	✓	✓	
Push to talk button (for emergency calls)			✓	✓	✓	
4 x opto-isolated inputs		✓				
4 x relay outputs		✓				
Emergency tones			✓	✓	✓	
Pre-recorder voice announcements (3)		✓				
Pre-recorded background music (3)		✓				
Image capture and transmit (4)				✓	✓	
Video capture and transmit (4)					✓	
Synchronized audio and video output						✓
Line output						✓
Hearing aid loop	Option	Option	Option	Option	Option	Option
Synchronized audio/video input						✓
MTBF > 100,000 hours	✓	✓	✓	✓	✓	✓
IP54 enclosure	✓	✓	✓	✓	✓	
Temperature -25° to 70°C	✓	✓	✓	✓	✓	✓
Humidity 5%-95% RH Non-Condensing	✓	✓	✓	✓	✓	✓
CE & RoHS Compliance	✓	✓	✓	✓	✓	✓
EN50155 Compliance	✓	✓	✓	✓	✓	✓

Notes:

- 1 G.703 (64kb/s PCM, 128kb/s PCM, 32kb/s ADPCM)
- 2 G.711 (64kb/s PCM)
- 3 MP3 (48, 44.1, 32, 24, 22.05, 16 KHz Sampling Rate)
- 4 MPEG-4

Specifications subject to change without notice.