



Enhancing the Efficiency of Transportation and Emergency Response with ZYCOO

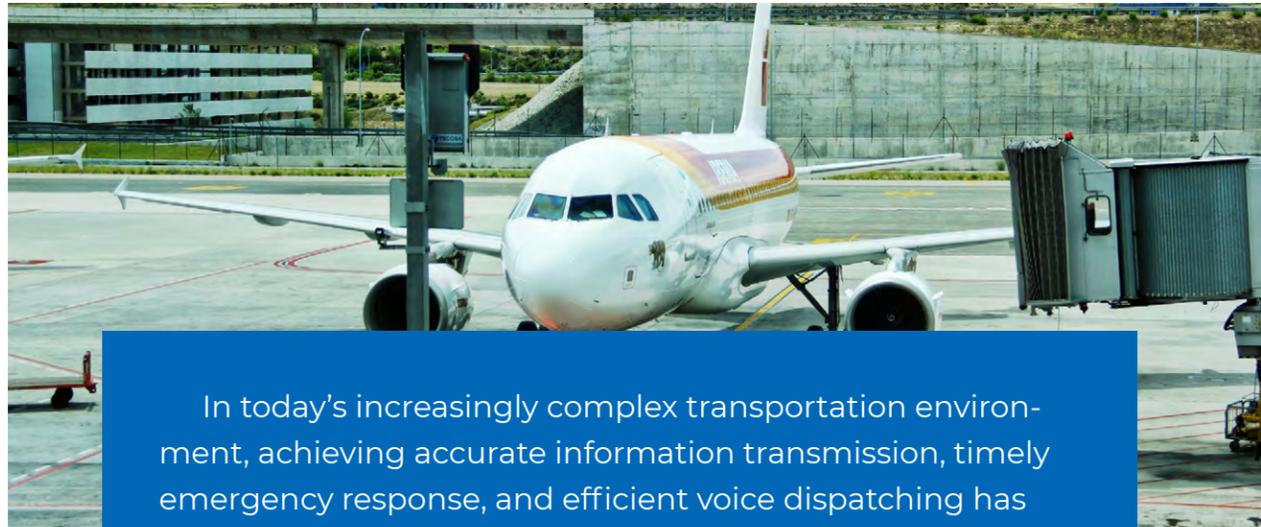


- ◆ Paging
- ◆ Notification
- ◆ Emergency Alarm
- ◆ Intercom



ZYCOO IP AUDIO SOLUTION FOR TRANSPORTATION

OVERVIEW



In today's increasingly complex transportation environment, achieving accurate information transmission, timely emergency response, and efficient voice dispatching has become the key to improving the operational efficiency of transportation systems and the public's travel experience.



ZYCOO has custom-developed an IP audio solution specifically for the transportation industry, enabling clear regional paging, rapid release of emergency notifications, and two way communication — all centrally controllable via a unified platform.



With ZYCOO's SIP-based audio endpoints—including IP network speakers and network intercoms—transportation operators can efficiently manage passenger flow, enhance travel safety, and streamline daily voice dispatching operations. All audio devices are centrally managed through the ZYCOO IP Audio Center, enabling unified control, flexible zoning, and rapid message delivery across the entire transportation hub.

In ZYCOO's Unified IP Audio Solution, you can efficiently, flexibly, and effortlessly meet the following application requirements:

-  **Real-time voice announcements in waiting areas, carriages, and platforms**
-  **Person paging and zoned broadcasting**
-  **Instant two-way communication between platforms and control center**
-  **Emergency alerts and transportation info notifications**
-  **Emergency broadcasting and evacuation guidance for incidents**
-  **Two - way intercom for customer service/assistance**
-  **Multi-language announcements for international travelers**
-  **Timed music/broadcast playback Integration with VMS**
-  **Centralized management and zoned control from operation dispatch center**
-  **Background music playback in rest areas**
-  **Lost & found notifications and passenger information updates**

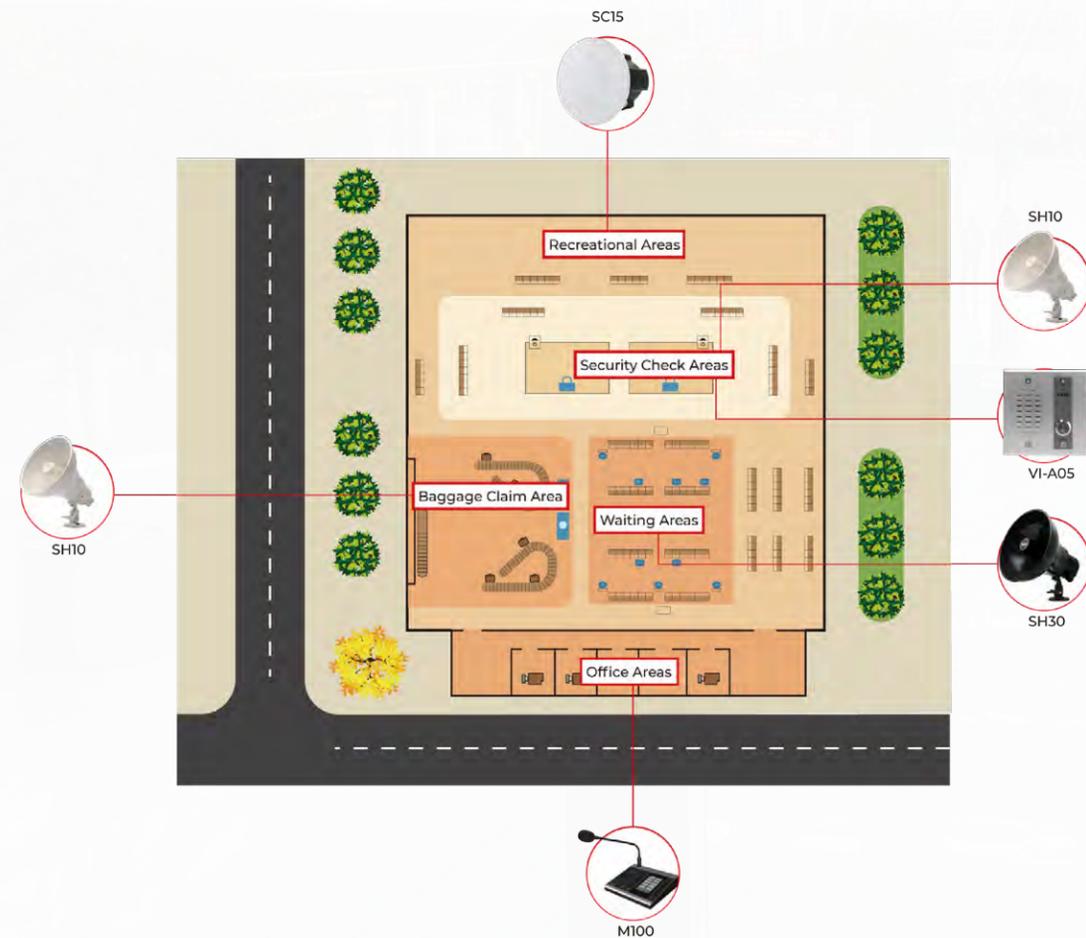
ZYCOO's unified IP audio solution allows traffic operators to integrate safety assurance, travel services and voice systems into one. It creates smarter and more interconnected transport hubs and networks. By improving information transmission, it enhances public travel experiences and makes a deep impression of being professional and reliable.



AIRPORT DEPLOYMENT

In airport scenarios, ZYCOO solutions prioritize hassle-free deployment and scenario-specific functionality. Our SIP-based audio devices—including speakers and intercoms—leverage PoE infrastructure for quick installation, minimizing disruption to daily operations.

Beyond key interior zones like terminals, security checkpoints and boarding gates, our ruggedized outdoor speakers extend coverage to parking lots, shuttle stations and cargo areas. This creates seamless audio connectivity across the entire airport campus, ensuring consistent communication and safety alerts wherever needed.



RECOMMENDED TECHNOLOGY



SC15



SW15



SH10



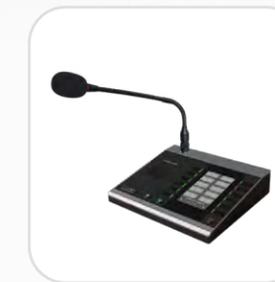
SH30



VI-A05



VI-D05

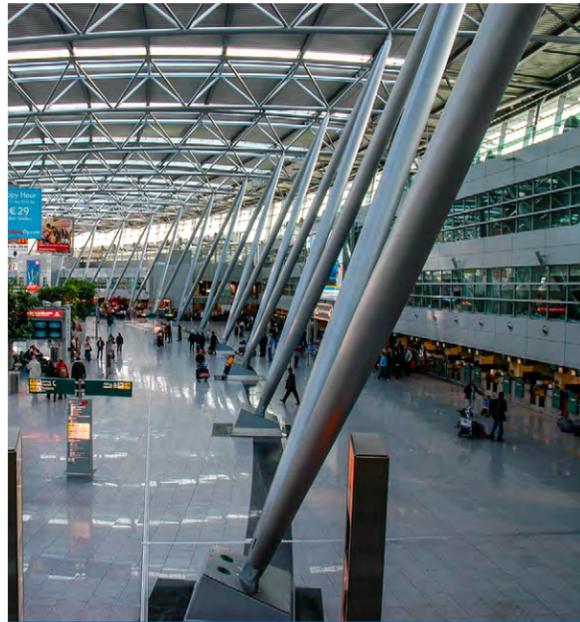


M100



IAS-L100

FOCUS AREAS



Terminal Public Area

In the airport terminal, the first stop for passengers with high foot traffic and fast-paced movement, ZYCOO's SC15 and SW15 ceiling-mounted IP speakers are evenly distributed. They deliver high-quality background music, flight info previews, service directions, and paging for lost-and-found. Zoned paging lets staff give specific instructions and respond quickly in emergencies. This setup enhances passenger experience, streamlines terminal operations, and improves real-time service coordination.



Security Check Areas

When passengers are waiting for security checks, they need to clearly receive queuing guidance and security check requirements (such as "Please take out electronic devices in advance"). Install SH10 above the queuing lanes; its sound directionally covers the queue area, minimizing interference to adjacent zones and ensuring waiting passengers receive information accurately. Additionally, adding VI-A05 intercom devices – intended for emergency alerts – allows staff to quickly report issues or seek assistance in urgent situations.



SC15



- ◆ Broadcast notifications and announcements
- ◆ Voice paging
- ◆ Emergency evacuation
- ◆ Centralized management
- ◆ Intercom (with button accessory)

SH10

- ◆ Daily announcement
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play safety guidelines

- ◆ Certified in IP66 water & dust proof
- ◆ Centralized management



SW15

- ◆ Play queue progress updates
- ◆ Play soothing music
- ◆ Broadcast notifications and announcements
- ◆ Voice paging
- ◆ Emergency evacuation
- ◆ Centralized management
- ◆ Intercom (with button accessory)



VI-A05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Centralized management
- ◆ Vandal-proof plate
- ◆ Tamper alarm design





◀ Waiting Areas

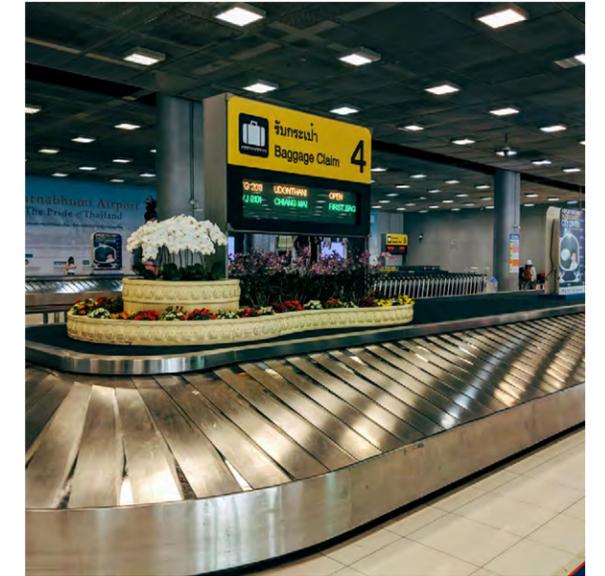
The waiting areas corresponding to each boarding gate are where passengers stay for extended periods, requiring precise broadcasts of flight boarding information, delay notices, and other updates specific to that gate. Mounting SH30 units on the walls of each boarding gate waiting area ensures passengers in these zones can clearly receive exclusive flight information. Moreover, the speakers at each gate can be independently controlled to prevent information confusion.

In public seating areas outside the boarding gate waiting zones, airport service information, background music, and similar content can be played. Installing SC15 units here helps create a comfortable waiting atmosphere.



◀ Baggage Claim Area

Passengers wait here for their luggage. SH10 installed above each conveyor belt, directed at the waiting area, ensures clear announcements about flight and conveyor info. In case of luggage issues or emergencies, passengers can use the VI - D05 intercom to report problems or request help.



SH30

- ◆ Daily announcement
- ◆ Scheduling bells
- ◆ Voice paging
- ◆ High volume emergency alarm
- ◆ Play soothing music
- ◆ Centralized management
- ◆ Certified in IP65 water & dust proof

SH10

- ◆ Daily announcement
- ◆ Emergency evacuation
- ◆ Voice paging
- ◆ Play safety guidelines
- ◆ Certified in IP66 water & dust proof
- ◆ Centralized management



VI-A05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Centralized management
- ◆ Vandal-proof plate
- ◆ Tamper alarm design



VI-D05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Provide two call destinations
- ◆ Centralized management
- ◆ Vandal-proof plate
- ◆ Tamper alarm design





STATION DEPLOYMENT



Office Areas

In airport office areas, efficient internal communication and reliable coordination tools are vital for smooth operations. ZYCOO's M100 microphone console enables managers to schedule announcements, page staff, or initiate alerts as needed. For business calls, the H4P IP phone offers high-definition voice communication, supporting daily tasks like contacting airlines, coordinating ground services, or handling passenger inquiries—all within a quiet, connected administrative workspace.

In railway transit hubs, our solutions seamlessly integrate rapid deployment with mission-critical reliability by utilizing PoE technology, allowing SIP-based audio devices such as platform speakers, ticket hall intercoms, and emergency call points to be installed in just a few hours, ensuring smooth operations for high-frequency train services. This system covers indoor critical areas, such as ticket gates, waiting lounges, and commercial concourses, providing clear and transparent passenger announcements so that every traveler can easily access information; at the same time, weather-resistant speakers at platform edges deliver real-time train schedules and safety warnings, ensuring passenger safety during their journeys. Additionally, industrial-grade outdoor units extend connectivity to freight yards, maintenance depots, and bus transfer hubs, guaranteeing that during peak travel seasons, the public address system operates 24/7 without interruption, can swiftly issue emergency broadcasts for evacuation coordination, and enables seamless communication between control centers and frontline staff. Together, let us create a safe, reliable, and efficient railway travel experience that ensures each journey is both reassuring and satisfying!

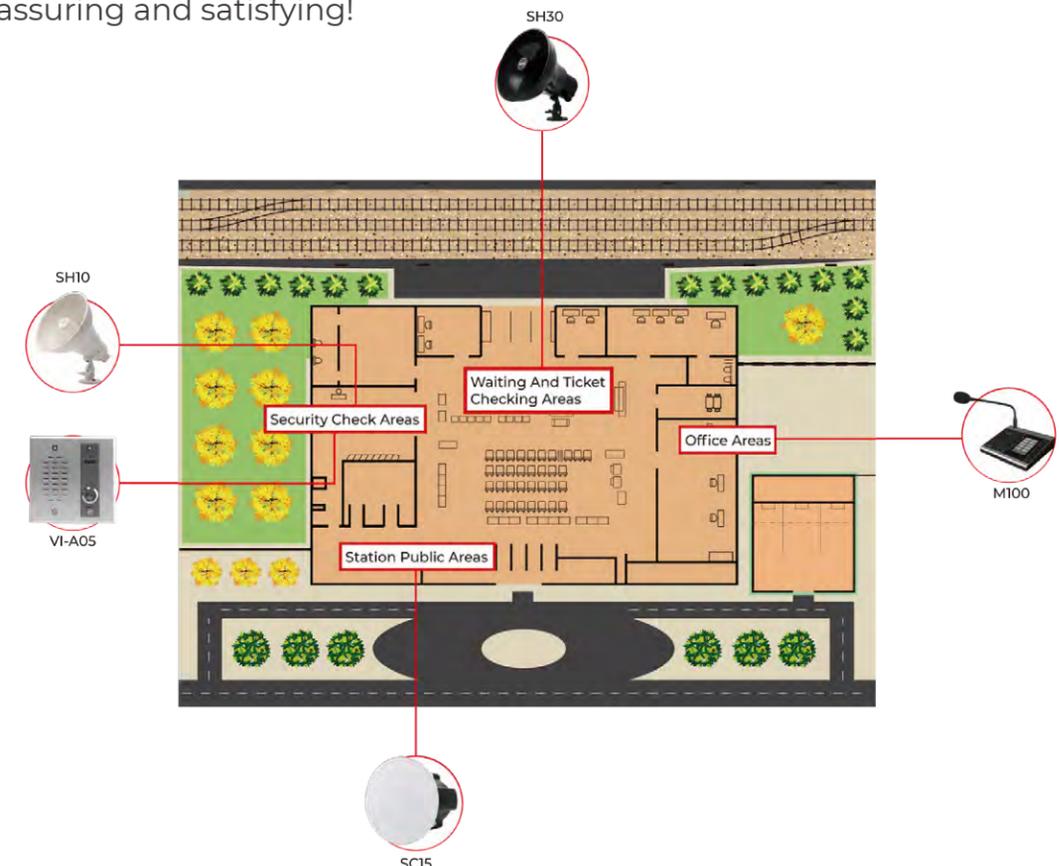
M100

- ◆ Initiate live paging
- ◆ Intercom
- ◆ Send daily announcement
- ◆ Serverless paging
- ◆ Serverless audio playlist
- ◆ Serverless alarm sound
- ◆ Event scheduler
- ◆ Remote door manage
- ◆ Remote relay control



H4P

- ◆ Making calls
- ◆ Voice paging
- ◆ Customizable fast key
- ◆ Trigger dtmfsignal



RECOMMENDED TECHNOLOGY



SC15



SW15



SH10



SH30



PB-S11



VI-V05



M100



IAS-L100

FOCUS AREAS

◀ Station Public Areas

Waiting Hall: As a core area with a high concentration of passengers and frequent foot traffic, it needs to broadcast train information announcements, station service guidelines, lost and found notices, etc. It is recommended to install SC15, evenly distributed on the ceiling, to ensure full sound coverage and enable passengers to clearly receive information anywhere in the hall.

Ticket Sales Area and Surrounding Areas of Information Desks: Passengers handle ticket purchases and inquiries here, requiring the delivery of information such as ticket purchase guidelines and refund policies. SW15 can be installed above ticket windows and next to information desks, supplemented by ceiling speakers for enhanced coverage, to prevent sound attenuation in areas close to the ground.



SC15

- ◆ Broadcast notifications and announcements
- ◆ Voice paging
- ◆ Emergency evacuation
- ◆ Centralized management
- ◆ Intercom (with button accessory)

SW15

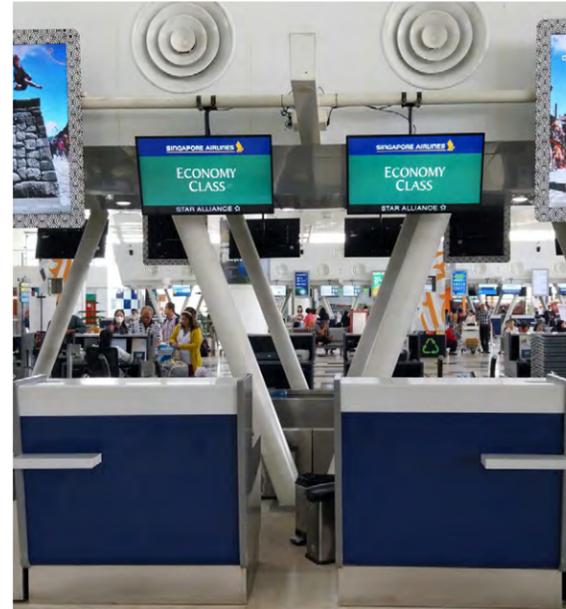
- | | |
|---------------------------------------------|------------------------------------|
| ◆ Play queue progress updates | ◆ Emergency evacuation |
| ◆ Play soothing music | ◆ Centralized management |
| ◆ Broadcast notifications and announcements | ◆ Intercom (with button accessory) |
| ◆ Voice paging | |





◀ Security Check Areas

To improve communication efficiency in the security check area, SH10 directional speakers can be installed above queuing lanes to deliver clear and focused audio messages, such as queuing guidance and security check instructions. The directional sound coverage minimizes noise spillover to surrounding areas, ensuring a calm and orderly environment. In addition, VI-V05 intercom terminals can be deployed to provide passengers with immediate access to emergency assistance and two-way communication when needed.



◀ Waiting And Ticket Checking Areas

Boarding Gate Waiting Area: Passengers stay here for a relatively long time, requiring precise broadcasts of train check-in information, delay notifications, etc., specific to the corresponding boarding gate. Install SH30 and VI-V05 on the wall of each boarding gate waiting area. These devices support independent control to avoid information confusion, ensuring passengers clearly receive exclusive train information.

Platform Area: When trains arrive or depart, it is necessary to broadcast boarding instructions (such as “The train is arriving soon, please stand behind the safety line”) and platform transfer information. Install SH30 and VI-V05 on the columns on both sides of the platform to adapt to the platform environment and ensure that passengers getting on or off the train can clearly receive the information. Through VI-V05, in case of an emergency, simply pressing the call button enables two-way communication with on-duty personnel. Meanwhile, VI-V05 provides a high-definition video feed, allowing on-duty personnel to gain a more intuitive understanding of the on-site situation.

SH10



- ◆ Daily announcement
- ◆ Voice paging
- ◆ High volume emergency alarm
- ◆ Intercom(With button accessory)
- ◆ Centralized management
- ◆ Certified in IP66 water & dust proof

SH30

- ◆ Daily announcement
- ◆ Scheduling bells
- ◆ Voice paging
- ◆ High volume emergency alarm
- ◆ Play soothing music
- ◆ Centralized management
- ◆ Certified in IP65 water & dust proof



VI-V05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Provide video screen during intercom
- ◆ Centralized management
- ◆ Vandal-proof plate
- ◆ Tamper alarm design



VI-V05

- ◆ Press to intercom
- ◆ Press to request API
- ◆ Provide video screen during intercom
- ◆ Centralized management
- ◆ Vandal-proof plate
- ◆ Tamper alarm design





Office Areas

In the administrative area of a station, the key to ensuring efficient operational performance lies in effective internal collaboration and reliable communication tools. ZYCOO's H4P IP phones deliver high-definition voice communication, enabling accurate responses to daily tasks—whether contacting train dispatch departments, coordinating on-site service teams, or handling passenger inquiries—all within quiet, interconnected administrative spaces. Additionally, the M100 microphone console allows managers to flexibly initiate broadcasts, call staff, or issue emergency alerts, facilitating more timely transmission of internal directives and smoother coordination.



M100

- ◆ Initiate live paging
- ◆ Intercom
- ◆ Send daily announcement
- ◆ Serverless paging
- ◆ Serverless audio playlist
- ◆ Serverless alarm sound
- ◆ Event scheduler
- ◆ Remote door manage
- ◆ Remote relay control



H4P

- ◆ Making calls
- ◆ Voice paging
- ◆ Customizable fast key
- ◆ Trigger dtmfsignal

BENEFITS

01. Comprehensive Server-based Solution Provided

Choose ZYCOO's all-in-one IP communication solution designed for public transportation hubs such as railway stations and airports. Based on a server-client architecture, the IP Audio Center centrally manages all audio endpoints across terminals, platforms, halls, and corridors. Desktop and mobile applications enable operators to handle paging, passenger announcements, and scheduled broadcasts efficiently, while each endpoint provides an independent GUI for easy configuration and maintenance.

The solution supports advanced telecommunication features including SIP trunking, inbound routing, IVR navigation, and more. It also supports server-less modes such as multicast and peer-to-peer (P2P), offering flexible deployment for large-scale, multi-zone transportation environments.



02. Standalone Server-less Solution Provided



For smaller stations, auxiliary buildings, or temporary facilities, ZYCOO provides a server-less solution based on the M100 microphone console. Utilizing multicast technology, the M100 enables zone-based or site-wide announcements, real-time paging, and audio playback without requiring a centralized server.

It also supports scheduled tasks such as timetable announcements, service reminders, or closing notifications. With a built-in 32GB industrial-grade TF card supporting WAV and MP3 audio files, the M100 is well suited for independent platforms, secondary terminals, or emergency backup use in transportation facilities.



03. Upgrade for Traditional Facilities

ZYCOO solutions allow public transportation operators to upgrade existing analog public address systems without replacing all infrastructure. By integrating the X10 paging gateway or SD series network power amplifiers, traditional analog speakers can receive digital audio signals for passenger announcements, emergency alerts, and operational paging.

This approach enables railway stations and airports to retain legacy PA equipment while gradually transitioning to IP-based audio systems—reducing upgrade costs, minimizing downtime, and avoiding large-scale reconstruction.

04. Seamless Technical Compatibility

ZYCOO solutions offer strong technical compatibility to meet the complex integration requirements of transportation hubs. Through ONVIF-compliant VMS platforms, ZYCOO speakers can be linked with surveillance systems, enabling synchronized announcements or automated alerts triggered by security events.

Additionally, ZYCOO Dante-enabled power amplifiers support real-time, high-quality audio transmission to other Dante-compatible systems, making them ideal for large terminals, multi-level concourses, and zones requiring precise audio synchronization and centralized control.

