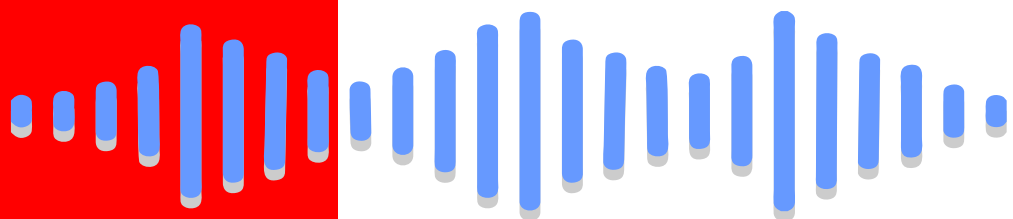




Network Audio
Communication

Public Address System



Overview



Pinetree Systems IP Based PA System is network audio broadcasting solution designed for industrial, commercial, institutional, and smart infrastructure applications. Unlike conventional analog PA systems, the IP PA System utilizes existing Ethernet networks to transmit high-quality digital audio, announcements, alerts, and music across multiple zones and remote locations.

The system supports **Power over Ethernet (PoE-IEEE 802)** technology, enabling both power and data communication through a single CAT6/CAT5e cable, thereby simplifying installation and reducing wiring costs.

Built using advanced IoT technology, the system offers centralized control, zone-wise audio broadcasting, remote speaker management, and flexible scalability suitable for campuses, factories, offices, transportation systems, hospitals, schools, and smart buildings.

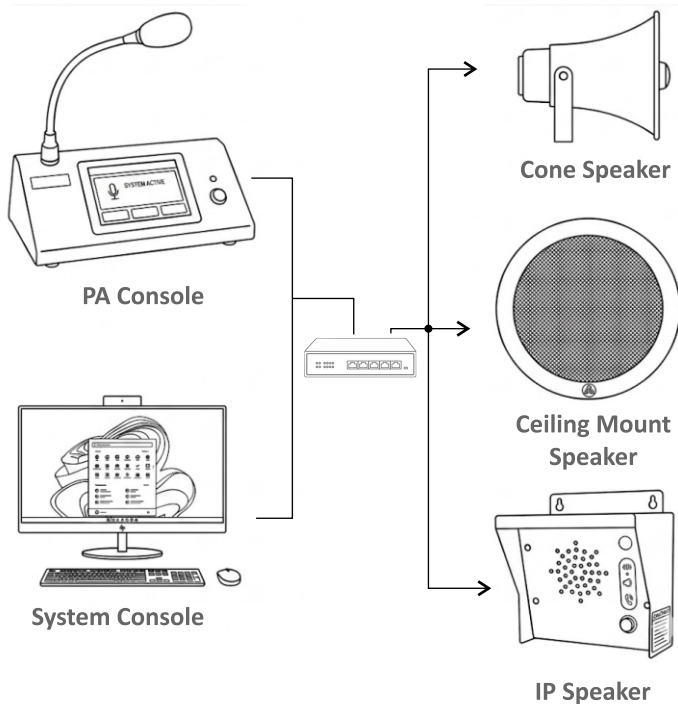



**IP-Based
Digital Audio**


**PoE
Powered**


**Easy
Installation**

Architecture



Key Advantages



- Simple installation using standard Ethernet & PoE
- Centralized control of zones and individual speakers
- IP-Based Digital Audio Transmission
- Remote Monitoring & Configuration
- Expandable & Scalable Architecture
- Industrial Grade Reliable Operation

Typical Applications



- Factories & Industrial Plants
- Schools, Colleges & Universities
- Hospitals
- Smart Buildings & Offices
- Railway Stations, Airports
- Shopping Malls, Hotels, Warehouses

PA Console



Network Audio Console Station

The IP PA Console is a smart network audio transmission and control unit used for LIVE announcements, broadcasting, zone and device management. It features digital microphone, touch display and advanced buffering technology for efficient communication and control



Specifications:

Power Supply	:POE
Network Interface	:RJ45 Ethernet
Communication Protocol	:TCP/IP,UDP
Audio Transmission	:Digital Audio
Audio Input	:MIC/BT/SD
Display	:4 Inch TFT Display
Audio Format	:PCM / Compressed
Operating Temperature	:0 to 60 degree C
Mounting	:Desktop Console

Features:

- Zone Selection and Speaker Control
- PoE / DC Powered
- Touch TFT Display Interface
- Real-Time Network Communication
- Voice and Music Broadcasting
- Web-Interface for Management

IP Speakers



Network Audio Speaker

IP Speakers and IP Speaker modules receive the digital audio over Ethernet and delivers clear voice & music announcements. Each Speaker has a unique ID for addressing and zone control. PA devices can connect to any standard PoE Ethernet port and supports plug-and-play with digital hardware, ensuring quality audio and a powerful solution for achieving clear audio required in critical communication.



Features:

- POE Powered
- Ethernet Audio Reception
- Unique Device Addressing
- Individual Speaker Control
- Compact Wall Mount Design
- Digital Audio Broadcasting
- Energy Efficient Operation
- Industrial Grade enclosure
- Web-Interface for Management

Specifications:

Power Supply	:POE
Network Interface	:RJ45 Ethernet
Communication Protocol	:TCP/IP,UDP
Amplifier	:Class D
Streaming	:IP Audio
Audio Format	:PCM / Compressed
Operating Temperature	:0 to 60 degree C
Mounting	:Wall / Ceiling

Get in Touch

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