

PAS-NMA700-4Z | Network Multi-Zone Mixer Amplifier 700 Watt



Key features

- Integrated digital Class-D 700W amplifier with four independently controlled output zones for targeted broadcasting.
- 2U rack design with 4.3-inch TFT color LCD, control knob, IR remote compatibility, and status indicators.
- Server-independent timed broadcasting via internal clock chip with programs on a local SD card.
- Built-in microphone and speaker enabling two-way intercom functionality.
- Comprehensive protection: Over-Current, Short-Circuit, Overload, and Thermal Protection.
- Relay I/O ports for integration with third-party fire alarm systems.

Product Overview

Macsys PAS-NMA700-4Z is a multi-zone IP mixer amplifier designed for versatile applications such as supermarkets, office buildings, and schools. It combines a pre-amplifier with independent bass and treble controls, allowing per-channel sound shaping.

Equipped with a digital Class-D 700W amplifier, it supports both 100V and 8–16Ω loudspeakers, offering four independently controlled output zones for flexible area coverage. Server-independent timed broadcasting is enabled through an internal clock chip, with programs stored on a local SD card. A built-in microphone and speaker provide reliable two-way intercom functionality.

The amplifier features a 2U rack-mount design with a 4.3-inch TFT color LCD, control knob, and IR remote compatibility. It includes comprehensive protection mechanisms, while an automatic fan cooling system activates above 55°C to ensure reliable long-term operation.

For connectivity, the PAS-NMA700-4Z supports 10/100 RJ45 networking with HTTP, TCP/IP, UDP, ARP, ICMP, and IGMP protocols, managed via a web interface or Config tool for simplified deployment. Additionally, relay I/O integration enables seamless connection with third-party fire alarm systems.

Technical Specification

| Features | Detail |
|---------------------------|--|
| Audio Parameters | |
| Amplifier class and power | Integrated digital Class-D 700W amplifier |
| Speaker compatibility | 100V and 8-16 Ω loudspeakers |
| Output zones | Four independently controlled output zones |
| Protection circuitry | Over-Current Protection, Short-Circuit Protection, Overload Protection, Thermal Protection |
| Form factor | 2U rack design |
| Display and controls | 4.3-inch TFT color LCD screen and control knob; infrared remote control compatibility; multiple status indicator lights |
| Built-in functions | Pre-amplifier; bass and treble controls; automatic cooling system; built-in microphone and speaker for two-way intercom |
| Timed broadcasting | Internal clock chip for timed broadcasting; programs uploaded to a local SD card; server-independent timed broadcasting |
| Local storage | SD card for program storage |
| Third-party integration | Relay I/O port for integration with third-party fire alarm systems |
| Network interface | 10BASE-T/100BASE-TX RJ45 |
| Network protocols | HTTP, TCP/IP, UDP, ARP, ICMP, IGMP |
| Configuration methods | Web Interface or Config Tool |
| Audio codecs | MP2, MP3, PCM, ADPCM |
| S/N ratio | Mic Input 01: ≥ 66 dB, Mic Input 02/03: ≥ 80 dB, Aux Input 01/02: ≥ 75 dB |
| Sampling and bit rate | 8kHz~44.1kHz, 16bit, 8kbps~320kbps |
| THD | $\leq 0.5\%$ at 1kHz, 1/2 rated output |
| Frequency response | 130Hz~18kHz |
| Front panel controls | Power switch and indicator; LED screen; function selection button; single-button coding rotation knob; built-in MIC; remote receiver module; TREBLE knob; AUX2 knob; AUX1 knob; MASTER knob; BASS knob; MIC1 knob; MIC2 knob; MIC3 knob; MIC1 input; PEAK area |

Technical Specification

| Features | Detail |
|-----------------------------|---|
| Rear panel interfaces | MIC 2, MIC 3; Network input port; SD card insert port; AUX 1, AUX 2 line input; AUX line output; Relay output 01/02; Relay input 01/02/03; Speaker Output (100V,80~16Ω); Multi-Zone Speaker Output (100V); Cooling fan; AC220V power input; Fuse; GND |
| Line output impedance range | 600Ω-10KΩ (legacy amplifier) |
| Relay outputs | 3-Pin Pluggable Terminal Block (3.81mm Pitch, AWG 26-16), Normally Open (NO) or Normally Closed (NC) Dry Contact |
| Relay inputs | 2-Pin Pluggable Terminal Block (3.81mm Pitch, AWG 26-16), Normally Open (NO) Dry Contact |
| Speaker outputs | 2-Pin Screw Terminal Block for 100V constant-voltage passive speakers; 2-Pin Screw Terminal Block for 8Ω constant-resistance passive speakers (total impedance between 8Ω~16Ω) |
| Multi-zone outputs | 5-Pin Screw Terminal Block for 100V constant-voltage passive speakers with zoning options |
| Accessories | 2×6-Pin Pluggable Terminal Block Connector (3.81mm Pitch, AWG 26-16); 4×Flat Head Screw & Washer; 1×Power Cord |
| Power supply | AC 220V, 50Hz |
| Rated output | 700W |
| Power consumption | ≤800W |
| Heat dissipation | Automatic start of the built-in fan when the temperature of the radiator exceeds 55°C, forced air cooling from front to back. |
| Mounting method | 2U Rack-Mounted |
| Installation environment | Dry Indoor Locations Only |
| Operating temperature | -10°C~+50°C (14°F~122°F) |
| Operating humidity | ≤90% RH non-condensing |
| Front panel material | Aluminum Alloy |
| Housing material | Surface-Treated Steel Plate |
| Color | Black |
| Product dimensions | 483x430x88mm |
| Product weight | 7.5KG |
| Certification | CE, ROHS Compliance |

Dimension

