# **AtlasIED Atmosphere Physical Input/Output Configuration**

# **Overview**

This document provides a detailed reference of the physical inputs and outputs for each AtlasIED Atmosphere audio processor model, based on official specifications and rear panel analysis.

# **Model Comparison**

# **Input Configuration Summary**

Model	Zones	Balanced Inputs	RCA In- puts	Dante In- puts	Matrix Audio	Total Sources
AZM4	4	4 (Phoenix)	2 (RCA)	-	4	10
AZM8	8	6 (Phoenix)	2 (RCA)	-	4	12
AZMP4	4	4 (Phoenix)	2 (RCA)	-	4	10
AZMP8	8	6 (Phoenix)	2 (RCA)	-	4	12
AZM4-D	4	4 (Phoenix)	2 (RCA)	2 (Dante)	4	12
AZM8-D	8	6 (Phoenix)	2 (RCA)	2 (Dante)	4	14

# **Detailed Model Specifications**

# **AZM4 - 4-Zone Audio Processor**

# **Physical Inputs:**

- Input 1 Balanced Phoenix (Priority Input)  $\neq$
- Input 2 Balanced Phoenix  $\neq$
- Input 3 Balanced Phoenix  $\phi$
- Input 4 Balanced Phoenix 🥠
- Input 5 Unbalanced RCA (Left) 🔊
- Input 6 Unbalanced RCA (Right) 🔊

#### **Internal Matrix Audio:**

- Matrix Audio 1-4 (Internal routing) 🔄

## **Outputs:**

- Zone 1-4 Line-Level Outputs (Phoenix)

## Features:

- Priority control on Input 1
- Web-based control interface

- RS-232 and TCP/IP control
- 4 audio zones with independent mixing

# **AZM8 - 8-Zone Audio Processor**

## **Physical Inputs:**

- Input 1 Balanced Phoenix (Priority Input) 🥠
- Input 2 Balanced Phoenix  $\phi$
- Input 3 Balanced Phoenix  $\neq$
- Input 4 Balanced Phoenix 🗲
- Input 5 Balanced Phoenix  $\neq$
- Input 6 Balanced Phoenix  $\neq$
- Input 7 Unbalanced RCA (Left) 🔊
- Input 8 Unbalanced RCA (Right) 🔊

#### **Internal Matrix Audio:**

- Matrix Audio 1-4 (Internal routing)

## **Outputs:**

- Zone 1-8 Line-Level Outputs (Phoenix)

#### Features:

- Priority control on Input 1
- Web-based control interface
- RS-232 and TCP/IP control
- 8 audio zones with independent mixing

# AZMP4 - 4-Zone Signal Processor with 600W Amplifier

# **Physical Inputs:**

- Input 1 Balanced Phoenix (Priority Input)  $\neq$
- Input 2 Balanced Phoenix  $\neq$
- Input 3 Balanced Phoenix  $\neq$
- Input 4 Balanced Phoenix  $\phi$
- Input 5 Unbalanced RCA (Left) 🔊
- Input 6 Unbalanced RCA (Right) 🔊

#### **Internal Matrix Audio:**

- Matrix Audio 1-4 (Internal routing)

## **Outputs:**

- Zone 1-4 **Amplified** Outputs (150W @ 70V/100V per zone)
- Zone 1-4 **Line-Level** Outputs (Pre-amp)

# **Features:**

- Dual outputs per zone (amplified + line-level)
- 600W total amplification (150W per zone)
- Priority control on Input 1
- 70V/100V transformer-isolated outputs

# AZMP8 - 8-Zone Signal Processor with 1200W Amplifier

## **Physical Inputs:**

- Input 1 Balanced Phoenix (Priority Input)  $\neq$
- Input 2 Balanced Phoenix  $\phi$
- Input 3 Balanced Phoenix  $\neq$
- Input 4 Balanced Phoenix  $\phi$
- Input 5 Balanced Phoenix 🗲
- Input 6 Balanced Phoenix  $\phi$
- Input 7 Unbalanced RCA (Left) 🔊
- Input 8 Unbalanced RCA (Right) 🔊

#### **Internal Matrix Audio:**

- Matrix Audio 1-4 (Internal routing)

## **Outputs:**

- Zone 1-8 **Amplified** Outputs (150W @ 70V/100V per zone)
- Zone 1-8 Line-Level Outputs (Pre-amp)

#### **Features:**

- Dual outputs per zone (amplified + line-level)
- 1200W total amplification (150W per zone)
- Priority control on Input 1
- 70V/100V transformer-isolated outputs

# AZM4-D - 4-Zone Audio Processor with Dante

# **Physical Inputs:**

- Input 1 Balanced Phoenix (Priority Input) eq
- Input 2 Balanced Phoenix  $\neq$
- Input 3 Balanced Phoenix  $\phi$
- Input 4 Balanced Phoenix 🗲
- Input 5 Unbalanced RCA (Left) 🔊
- Input 6 Unbalanced RCA (Right) 🔊

## **Dante Network Audio:**

- Dante Input 1-2 (RJ45 network audio) 🌐



# **Internal Matrix Audio:**

- Matrix Audio 1-4 (Internal routing)

# **Outputs:**

- Zone 1-4 Line-Level Outputs (Phoenix)
- Dante Output 1-2 (RJ45 network audio)

## **Network Ports:**

- 2x Dante network ports (Primary + Secondary for redundancy)
- 2x Control network ports

## Features:

- Dante network audio integration
- Redundant Dante network

- Priority control on Input 1
- Web-based control interface

# AZM8-D - 8-Zone Audio Processor with Dante

## **Physical Inputs:**

- Input 1 Balanced Phoenix (Priority Input) 🥠
- Input 2 Balanced Phoenix  $\phi$
- Input 3 Balanced Phoenix  $\phi$
- Input 4 Balanced Phoenix 🗲
- Input 5 Balanced Phoenix  $\phi$
- Input 6 Balanced Phoenix  $\neq$
- Input 7 Unbalanced RCA (Left) 🔊
- Input 8 Unbalanced RCA (Right) 🔊

#### **Dante Network Audio:**

- Dante Input 1-2 (RJ45 network audio)



# **Internal Matrix Audio:**

- Matrix Audio 1-4 (Internal routing)

## **Outputs:**

- Zone 1-8 Line-Level Outputs (Phoenix)
- Dante Output 1-2 (RJ45 network audio)

#### **Network Ports:**

- 2x Dante network ports (Primary + Secondary for redundancy)
- 2x Control network ports

## **Features:**

- Dante network audio integration
- Redundant Dante network
- Priority control on Input 1
- Web-based control interface

# **Input Type Definitions**

# **Balanced Inputs (Phoenix Connectors)**

- Professional mic/line level inputs
- · Phoenix screw terminal connectors
- Differential signal transmission
- Superior noise rejection
- Ideal for: Microphones, professional audio sources, long cable runs
- Icon: ←

# **Unbalanced Inputs (RCA Connectors)**

- Consumer-level stereo inputs
- Standard RCA jacks (red/white or L/R)

- · Single-ended signal transmission
- Good for short cable runs
- Ideal for: Consumer audio devices, media players, background music sources
- Icon: 🔊

# **Dante Network Inputs (RJ45)**

- · Digital audio over IP network
- Standard Cat5e/Cat6 cabling
- Multi-channel, low-latency audio
- Supports redundant network topology
- Ideal for: Distributed audio systems, integration with other Dante devices
- Icon: 🌐
- Only available on: AZM4-D, AZM8-D

# **Matrix Audio (Internal)**

- · Internal audio routing buses
- · Software-configurable mixing
- Can combine multiple inputs
- Useful for complex routing scenarios
- Icon: 🔄

# **Priority Input Feature**

**Input 1** on all models has a special **Priority** function:

- Can automatically duck (reduce volume of) other inputs
- Ideal for: Paging systems, emergency announcements, important notifications
- · Configurable priority level and duck amount
- Can be configured to completely mute other sources

# **Output Configurations**

# Line-Level Outputs (Non-Amplified Models)

- AZM4, AZM8, AZM4-D, AZM8-D
- Phoenix screw terminal outputs
- · Requires external amplification
- +4dBu balanced output

# **Amplified Outputs (AZMP Models)**

- AZMP4, AZMP8
- Dual outputs per zone:
- Amplified Output: 150W @ 70V/100V (Phoenix)
- Line-Level Output: Pre-amp signal for additional amplification
- Transformer-isolated 70V/100V outputs

· Can drive speakers directly or use line output for external amps

# **Rear Panel Images**

All rear panel images are available at:

- /atlas-models/azm4-rear.png
- /atlas-models/azm8-rear.png
- /atlas-models/azmp4-rear.png
- /atlas-models/azmp8-rear.png
- /atlas-models/azm4-d-rear.png
- /atlas-models/azm8-d-rear.png

# **Configuration Verification Checklist**

When configuring an AtlasIED Atmosphere processor in the Sports Bar Al Assistant, verify:

- [ ] Correct number of physical inputs for the model
- 4-zone models: 6 total (4 balanced + 2 RCA)
- 8-zone models: 8 total (6 balanced + 2 RCA)
- -D models: Add 2 Dante inputs
- [ ] All 4 Matrix Audio buses are available
- [ ] Correct number of zone outputs matches zone count
- [ ] AZMP models show both amplified AND line-level outputs
- [ ] Input 1 is marked as Priority Input
- [ ] RCA inputs are labeled as unbalanced (Input 5-6 for 4-zone, Input 7-8 for 8-zone)
- [ ] Dante inputs only appear on -D models

# **Sports Bar Application Examples**

# **Typical Input Assignments**

# **Sports Bar with AZM8:**

- Input 1 (Balanced): Paging microphone (priority)
- Input 2 (Balanced): DJ mixer
- Input 3 (Balanced): Jukebox/music system
- Input 4 (Balanced): Sports TV audio feed 1
- Input 5 (Balanced): Sports TV audio feed 2
- Input 6 (Balanced): Sports TV audio feed 3
- Input 7 (RCA): Background music player (L)
- Input 8 (RCA): Background music player (R)

# **Zone Assignment Example**

- Zone 1: Main bar area
- Zone 2: Dining room 1
- Zone 3: Dining room 2

• Zone 4: Patio

• Zone 5: Game room

• Zone 6: Private dining

• Zone 7: Restroom corridor

• Zone 8: Kitchen

Each zone can independently select any input source and control volume/EQ.

Document created: September 30, 2025

AtlasIED Atmosphere Audio Processors - Physical Configuration Reference