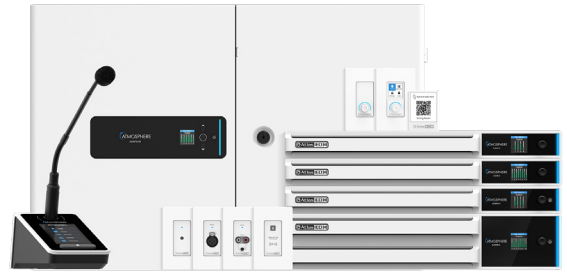# AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER

AZM4-D / AZM8-D
AZMP4-D / AZMP8-D
AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

PRODUCT SUMMARY

The AtlasIED Atmosphere platform was developed to meet the highest standards of design, quality, and value that our customers have come to expect from AtlasIED. We believe you will find this platform highly flexible to address a variety of applications while being refreshingly simple to deploy.

Four 4-Zone models (AZM4, AZMP4, AZM4-D, AZMP4-D) each include 6 analog audio inputs (2 RCA mono-summed + 4 mic/line) and 2 accessory port inputs. Non-powered models feature 4 line outputs, powered models 4 amplified outputs (600W) + 2 line out, and Dante models offer up to 10x16 I/O.

Five 8-Zone models (AZM8, AZMP8, AZM8-D, AZMP8-D, AZMP8-DW) each include 10 analog audio inputs (4 RCA mono-summed + 6 mic/line) and 4 accessory port inputs. Non-powered models feature 8 line outputs, powered models 8 amplified outputs (1200W) + 2 line out, and Dante models offer up to 14x16 I/O.

Seven plug and play smart accessories expand the system capabilities and allow for future scalability. Accessories include three audio input accessories: balanced mic/line XLR (A-XLR), RCA with 3.5mm (A-RCA), and Bluetooth® (A-BT). Also available are two controllers: single zone volume control (C-V) and advanced multi-zone controller with volume control, source select, scene recall, message recall (C-ZSV), as well as an ambient noise sensor for automatic Ambient Noise Compensation and Loud Noise Detection (X-ANS). Any control accessory can be daisy chained onto a single cable run and assigned to any zone, reducing installation time and complexity.

The 4.3" touchscreen X-ZPS Paging Station, connected by one of the accessory ports (1 X-ZPS per accessory port), provides zone paging, all call, and custom group paging features combined with a high-quality, gooseneck microphone. The X-ZPS also serves as a system controller for volume, source selection, message recall, and more

Amplified AZMP models further reduce integration and commissioning time by integrating first-class amplification with system DSP. With the ability to power-share between channels (channels 1-4 and channels 5-8) the AZMP series can scale to the size of the zone which results in efficient system design. All amp channels utilize a self test strategy that provides assurance that both the AZMP and connected loudspeakers are working as designed.

APPLICATIONS

- Restaurant / Bars
- Houses of Worship
- Offices
- Industrial
- Education
- Corporate Centers

KEY FEATURES

- 9 available processors; 4 & 8 zones, amplified and non-amplified, Dante and non-Dante
- Web GUI programming interface
- Plug and Play Intelligent Accessories; controllers, audio inputs, paging
- Accessory bus length up to 1000'
- Daisy Chain up to 8 Accessories per Port, up to 16 per AZM
- Accessory Self-Heal
- Input Source Types: Mono, Stereo
- Output Zone Types: Mono, Mono+Sub, Stereo, Stereo+Sub
- Actions: Messages, Scenes, Routines, GPO Presets, Bells
- Zone Gouping / Room combine
- Bell scheduler - Up to 10 unique ring lists with 50 bells each
- Event Scheduler: Intuitive Calendar Format Event Scheduler
- Message Player: 100 messages, 1GB onboard storage, compatible with .wav
- GPIO: Assign inputs to recall Actions, outputs controlled as Actions
- Ambient Noise Compensation (using X-ANS)
- Loud Noise Detection (using X-ANS)
- Input Auto-Gain Audio Control
- QR-activiated Virtual Wall Controllers, instant no-app mobile control
- Tilter Filter™ Room EQ Adjustment Tool
- AtlasIED Speaker Presets
- Sound Masking: Full suite of tools for complete speech privacy control
- Printable Dynamic System Diagram
- Third Party Control with integrated API tools
- Simple, Streamlined Workflow for All Skill Levels

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER

AZM4-D / AZM8-D / AZMP4-D AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

Models Covered: AZM4, AZM8, AZMP4, AZMP8

System	AZM4	AZM8	AZMP4	AZMP8
Type	4-Zone Audio Processor Dante	8-Zone Audio Processor Dante	4-Zone Signal Processor with 600-Watt Amplifier and Dante	8-Zone Signal Processor with 1200-Watt Amplifier and Dante

Power Requirements/Consumption	All Non-Dante Models			
Mains Requirements	100 - 240 VAC, 50 - 60 Hz (C14 Mains Inlet Connector)			

Audio Inputs	AZM4	AZM8	AZMP4	AZMP8
Total number of processed system Sources	8	14	8	14
Mic / Line Inputs	4 (Euroblock)	6 (Euroblock)	4 (Euroblock)	6 (Euroblock)
RCA	2 (mono-summed)	4 (mono-summed)	2 (mono-summed)	4 (mono-summed)
Line Outputs	4 (Euroblock)	2 (Euroblock)	2 (mono-summed)	2 (mono-summed)
General Purpose Inputs	6 (Euroblock)	6 (Euroblock)	6 (Euroblock)	6 (Euroblock)
Amplified RJ45 Output Ports	0	0	2	4
Amplified Outputs	0	0	4	8
High Priority Inputs	1 (Euroblock)	1 (Euroblock)	1 (Euroblock)	1 (Euroblock)
General Purpose Outputs	2 (Euroblock)	2 (Euroblock)	2 (Euroblock)	2 (Euroblock)
Atmosphere Accessory Ports	2 (RJ45)	4 (RJ45)	2 (RJ45)	4 (RJ45)
Balanced Mic / Line Inputs	Connector Type: 3.5mm Pitch Euroblock Color: Green Sensitivity: +4dBu with Gain Set to 0dB Input Gain: 0 - 60dB in 6dB Steps Phantom Power Voltage: +48VDC 10mA Accepts Unbalanced Inputs: Yes Maximum Input Level: +20dBu (7.72 Vrms) with Gain Set to 0dB Input Impedance: 3.9kΩ EIN: -125dBu with 150Ω Source Impedance and 20kHz BW CMRR: Typically 65dB at 1kHz Maximum Cable Size: 18AWG Minimum Cable Size: 24AWG			
RCA	Right Channel Color: Red Left Channel Color: White Type: Mono-summed Pairs Sensitivity: -10dBV Maximum Input: 2.4 Vrms (7.6dBV / 9.8dBu) for Both Inputs Driven and 4.78 Vrms (13.6dBV / 15.8dBu) for a Single Input			

Audio Outputs	AZM4	AZM8	AZMP4	AZMP8
Total number of processed system Zones (new)	4	8	4	8
Balanced Line Outputs	Connector Type: 3.5mm Pitch Euroblock Color: Orange Maximum Output Level: +20dBu (7.75 Vrms) Maximum Cable Size: 18AWG Minimum Cable Size: 24AWG			

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER

AZM4-D / AZM8-D / AZMP4-D AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

Audio Performance - Line Inputs	All Non-Dante Models
THD+N	<0.01% at 0dBu Input / Output with 0dB Gain at 1kHz
Frequency Response	±0.5dB 20Hz - 20kHz
Dynamic Range (S/N)	>108dB Unweighted 20Hz - 20kHz, > 110dB "A" Weighted
Crosstalk	>-78dB at 1kHz
Latency	Euroblock Input or RCA Input to Euroblock Output: 4.9 ms Accessory Input A/C to Euroblock Output: 5.9 ms Accessory Input B/D to Euroblock Output: 6.7 ms
Maximum Hardware Gain	60dB

Audio Performance - Powered Outputs (Amplifier)	AZM4	AZM8	AZMP4	AZMP8
Signal to Noise Ratio	n/a	n/a	105dB	105dB
THD Maximum (1W to 100W, 1kHz)	n/a	n/a	0.02%	0.02%
THD Maximum (1W to 600W, 1kHz)	n/a	n/a	0.20%	0.20%
Maximum Output Current	n/a	n/a	10A	10A
Maximum Output Voltage	n/a	n/a	100Vrms	100Vrms
Protection	n/a	n/a	Short, Thermal, HF, and DC	Short, Thermal, HF, and DC
Amplifier Module Channel Count	n/a	n/a	4	4
Number of Amp Modules in System	n/a	n/a	1	2
Amplifier Module Total Power	n/a	n/a	615W	615W
Total System Power	n/a	n/a	615W	1230W
Single Channel Max Power	n/a	n/a	600W	600W
Single Channel Min Power	n/a	n/a	5W	5W
Output Modes	n/a	n/a	4/8/25/48/70/100	4/8/25/48/70/100
Power Save Modes	n/a	n/a	Channel Standby, Module Deep Sleep	Channel Standby, Module Deep Sleep
Independent channel output modes	n/a	n/a	Yes, individual per channel	Yes, individual per channel
2 ohm stable	n/a	n/a	Yes, at reduced power	Yes, at reduced power
Power Sharing	n/a	n/a	Yes	Yes
Power Sharing Minimum Increment	n/a	n/a	5W steps between 5-600W	5W steps between 5-600W

Input Processing	All Non-Dante Models	
EQ	-12dB/oct 8Hz Filter, PEQ, Low / High Shelf, Notch, LP / HP (BW 6, 12, 24, dB/oct)	
Dynamics	Gate, De-Esser, Compressor, Auto Gain	
Other	Gain, Mixes (one per output)	

Output Processing	All Non-Dante Models
EQ	PEQ, Tilter Filter, Low / High Shelf, Notch, Crossover LP / HP (BW 6, 12, 18, 24, and LR12, LR24), Speaker Tuning EQ Presets, Tone Control
Dynamics	Ambient Noise Compensation, Noise Detection, Priority Router
Frequency Response (8Ω)*	+/-0.5dB
Crosstalk (1kHz)	-70dB

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

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AUDIO SPECIFICATIONS / PERFORMANCE

Other	Delay (500 ms), Gain
Masking	White or Pink Noise Source, Preset EQ Curves, 20 Band Perfect Fit GEQ (100Hz - 8kHz, Tilter Filter™, HPF (BW6, BW12), LPF (BW6, BW12), Enhanced Privacy Gain, (-12dB to +12dB), 7 Day Scheduler, Commissioning Ramp Scheduler (maximum of 30 days

Other Connections	All Non-Dante Models
General Purpose Inputs	Contact Closure: Normally Open Capable of Internal Pull-up to 5VDC via User Interface Voltage Input: 0 - 12VDC (1.3VDC Trigger Voltage)
High Prioriry Input	Contact Closure: Normally Open Capable of Internal Pull-up to 5VDC via User Interface Voltage Input: 0 - 12VDC (1.3VDC Trigger Voltage)
General Purpose Outputs	Source Current: 10mA at 2VDC Maximum Sink Current: 180mA Maximum Sink Voltage: 24VDC
Accessory Ports	Maximum Accessories per Port: 8 Maximum Accessories per AZM: 16 Maximum Bus Length: 1000ft Maximum Audio Wall Plates per Port: 1

Network - Control	All Non-Dante Models
Network Control Port	1 (RJ45), dedicated Control port
Speed	10/100mbps

Wi-Fi - Control	All Non-Dante Models			
Type	802.11 b/g/n 2.4GHz			
Free Air Range	60ft			
Antenna Type	External (as of October 2022)			
Antenna Connector	RP-SMA			

Mechanical	AZM4	AZM8	AZMP4	AZMP8
Airflow	Front to Back	Front to Back	Front to Back	Front to Back
Operating Ambient Temperature Range	0° - 40°C	0° - 40°C	0° - 40°C	0° - 40°C
Cooling System	Forced Air with Side and Back Panel Venting	Forced Air with Side and Back Panel Venting	Forced Air with Side and Back Panel Venting	Forced Air with Side and Back Panel Venting

Energy Consumption	AZM4	AZM8	AZMP4	AZMP8
Max Power Consumption	40W	75W	875W	1750W

Front Panel	AZM4	AZM8	AZMP4	AZMP8
Sceen	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"
Encoder / Buttons	24 Detent, Push Button Encoder	24 Detent, Push Button Encoder	24 Detent, Push Button Encoder	24 Detent, Push Button Encoder
Light Bar	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)
Type				
Free Air Range				

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

**AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW**
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

Dimensions and Weight	AZM4	AZM8	AZMP4	AZMP8
Rack Mount Requirements	1 RU, 19"	1 RU, 19"	1 RU, 19"	2 RU, 19"
Dimensions (with Rack Ears) - Unit	W 19" x H 1.75" x D 11.7" (483mm x 45mm x 297mm)	W 19" x H 1.75" x D 11.7" (483mm x 45mm x 297mm)	W 19" x H 1.75" x D 15.03" (483mm x 45mm x 432mm)	W 19" x H 3.45" x D 15.03" (483mm x 88mm x 432mm)
Dimensions (without Rack Ears) - Unit	W 8.5" x H 1.75" x D 11.7" (216mm x 45mm x 297mm)	W 17" x H 1.75" x D 11.7" (432mm x 45mm x 297mm	W 17" x H 1.75" x D 15.03" (432mm x 45mm x 432mm)	W 17" x H 3.45" x D 15.03" (432mm x 88mm x 432mm)
Dimensions - Shipping	W 22" x H 4.75" x D 14" (559mm x 121mm x 356mm)	W 22" x H 4.75" x D 14" (559mm x 121mm x 356mm)	W 23.25" x H 4.75" x D 19.75" (591mm x 121mm x 502mm)	W 23.25" x H 7" x D 19.75" (591mm x 178mm x 502mm)
Weight - Unit	4.735 lbs (2.148kg)	8.330 lbs (3.778kg)	13 lbs (5.9kg)	19.7 lbs (8.9kg)
Weight - Shipping	7.3 lbs (3.3kg)	10.67 lbs (48kg)	18.45 lbs (8.45kg)	26.75 lbs (12.1kg)

Agency Approvals	All Non-Dante Models
Safety	Conforms to: ANSI / UL 62368-1 Certified to: CAN / CSA C22.2 #6236
FCC / ISED	Part 15 (Class B) (US), ICES-003 (Canada)

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AZM4 / AZM8
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AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

**AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW**
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

-:- Dante®

Models Covered: AZM4-D, AZM8-D, AZMP4-D, AZMP8-D, AZMP8-DW

System	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Type	4-Zone Audio Processor Dante	8-Zone Audio Processor Dante	4-Zone Signal Processor with 600-Watt Amplifier and Dante	8-Zone Signal Processor with 1200-Watt Amplifier and Dante	8-Zone Signal Processor with 1200-Watt Amplifier and Dante in an all-in-one wall mount cabinet

Power Requirements/Consumption	All Dante Models
Mains Requirements	100 - 240 VAC, 50 - 60 Hz (C14 Mains Inlet Connector)

Audio Inputs	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Total number of processed system Sources	8	14	8	14	14
Mic / Line Inputs	4 (Euroblock)	6 (Euroblock)	4 (Euroblock)	6 (Euroblock)	6 (Euroblock)
RCA	2 (mono-summed)	4 (mono-summed)	2 (mono-summed)	4 (mono-summed)	4 (mono-summed)
Line Outputs	4 (Euroblock)	2 (Euroblock)	2 (mono-summed)	2 (mono-summed)	2 (mono-summed)
General Purpose Inputs	6 (Euroblock)	6 (Euroblock)	6 (Euroblock)	6 (Euroblock)	6 (Euroblock)
Amplified RJ45 Output Ports	0	0	2	4	4
Amplified Outputs	0	0	4	8	8
High Priority Inputs	1 (Euroblock)	1 (Euroblock)	1 (Euroblock)	1 (Euroblock)	1 (Euroblock)
General Purpose Outputs	2 (Euroblock)	2 (Euroblock)	2 (Euroblock)	2 (Euroblock)	2 (Euroblock)
Atmosphere Accessory Ports	2 (RJ45)	4 (RJ45)	2 (RJ45)	4 (RJ45)	4 (RJ45)
Balanced Mic / Line Inputs	Connector Type: 3.5mm Pitch Euroblock Color: Green Sensitivity: +4dBu with Gain Set to 0dB Input Gain: 0 - 60dB in 6dB Steps Phantom Power Voltage: +48VDC 10mA Accepts Unbalanced Inputs: Yes Maximum Input Level: +20dBu (7.72 Vrms) with Gain Set to 0dB Input Impedance: 3.9kΩ EIN: -125dBu with 150Ω Source Impedance and 20kHz BW CMRR: Typically 65dB at 1kHz Maximum Cable Size: 18AWG Minimum Cable Size: 24AWG				
RCA	Right Channel Color: Red Left Channel Color: White Type: Mono-summed Pairs Sensitivity: -10dBV Maximum Input: 2.4 Vrms (7.6dBV / 9.8dBu) for Both Inputs Driven and 4.78 Vrms (13.6dBV / 15.8dBu) for a Single Input				

Audio Outputs	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Total number of processed system Zones	4	8	4	8	8
Balanced Line Outputs	Connector Type: 3.5mm Pitch Euroblock Color: Orange Maximum Output Level: +20dBu (7.75 Vrms) Maximum Cable Size: 18AWG Minimum Cable Size: 24AWG				

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**AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW**
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

‹⋮› **Dante**®

Audio Performance - Line Inputs	All Dante Models
THD+N	<0.01% at 0dBu Input / Output with 0dB Gain at 1kHz
Frequency Response	±0.5dB 20Hz - 20kHz
Dynamic Range (S/N)	>108dB Unweighted 20Hz - 20kHz, > 110dB "A" Weighted
Crosstalk	>-78dB at 1kHz
Latency	Euroblock Input or RCA Input to Euroblock Output: 4.9 ms Accessory Input A/C to Euroblock Output: 5.9 ms Accessory Input B/D to Euroblock Output: 6.7 ms
Maximum Hardware Gain	60dB

Audio Performance - Powered Outputs (Amplifier)	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Signal to Noise Ratio	n/a	n/a	105dB	105dB	105dB
THD Maximum (1W to 100W, 1kHz)	n/a	n/a	0.02%	0.02%	0.02%
THD Maximum (1W to 600W, 1kHz)	n/a	n/a	0.20%	0.20%	0.20%
Maximum Output Current	n/a	n/a	10A	10A	10A
Maximum Output Voltage	n/a	n/a	100Vrms	100Vrms	100Vrms
Protection	n/a	n/a	Short, Thermal, HF, and DC	Short, Thermal, HF, and DC	Short, Thermal, HF, and DC
Amplifier Module Channel Count	n/a	n/a	4	4	4
Number of Amp Modules in System	n/a	n/a	1	2	2
Amplifier Module Total Power	n/a	n/a	615W	615W	615W
Total System Power	n/a	n/a	615W	1230W	1230W
Single Channel Max Power	n/a	n/a	600W	600W	600W
Single Channel Min Power	n/a	n/a	5W	5W	5W
Output Modes	n/a	n/a	4/8/25/48/70/100	4/8/25/48/70/100	4/8/25/48/70/100
Power Save Modes	n/a	n/a	Channel Standby, Module Deep Sleep	Channel Standby, Module Deep Sleep	Channel Standby, Module Deep Sleep
Independent channel output modes	n/a	n/a	Yes, individual per channel	Yes, individual per channel	Yes, individual per channel
2 ohm stable	n/a	n/a	Yes, at reduced power	Yes, at reduced power	Yes, at reduced power
Power Sharing	n/a	n/a	Yes	Yes	Yes
Power Sharing Minimum Increment	n/a	n/a	5W steps between 5-600W	5W steps between 5-600W	5W steps between 5-600W

Input Processing	All Dante Models
EQ	-12dB/oct 8Hz Filter, PEQ, Low / High Shelf, Notch, LP / HP (BW 6, 12, 24, dB/oct)
Dynamics	Gate, De-Esser, Compressor, Auto Gain
Other	Gain, Mixes (one per output)

Output Processing	All Dante Models
EQ	PEQ, Tilter Filter, Low / High Shelf, Notch, Crossover LP / HP (BW 6, 12, 18, 24, and LR12, LR24), Speaker Tuning EQ Presets, Tone Control
Dynamics	Ambient Noise Compensation, Noise Detection, Priority Router
Frequency Response (8Ω)*	+/-0.5dB
Crosstalk (1kHz)	-70dB

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AUDIO SPECIFICATIONS / PERFORMANCE

‑‑Dante®

Other	Delay (500 ms), Gain
Masking	White or Pink Noise Source, Preset EQ Curves, 20 Band Perfect Fit GEQ (100Hz - 8kHz, Tilter Filter™, HPF (BW6, BW12), LPF (BW6, BW12), Enhanced Privacy Gain, (-12dB to +12dB), 7 Day Scheduler, Commissioning Ramp Scheduler (maximum of 30 days

Other Connections	All Dante Models
General Purpose Inputs	Contact Closure: Normally Open Capable of Internal Pull-up to 5VDC via User Interface Voltage Input: 0 - 12VDC (1.3VDC Trigger Voltage)
High Priority Input	Contact Closure: Normally Open Capable of Internal Pull-up to 5VDC via User Interface Voltage Input: 0 - 12VDC (1.3VDC Trigger Voltage)
General Purpose Outputs	Source Current: 10mA at 2VDC Maximum Sink Current: 180mA Maximum Sink Voltage: 24VDC
Accessory Ports	Maximum Accessories per Port: 8 Maximum Accessories per AZM: 16 Maximum Bus Length: 1000ft Maximum Audio Wall Plates per Port: 1

Network - Control	All Dante Models
Network Control Port	1 (RJ45), dedicated Control port
Speed	10/100mbps

Wi-Fi - Control	All Dante Models
Type	802.11 b/g/n 2.4GHz
Free Air Range	60ft
Antenna Type	External
Antenna Connector	RP-SMA
Antenna Extender (AZMP8-DW only)	RP-SMA, 8" cable

Network - Dante	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Max Atmosphere Dante I/O	8x16	14x16	8x16	14x16	14x16
Dante I/O Hardware	Brooklyn 3, 16x16	Brooklyn 3, 16x16	Brooklyn 3, 16x16	Brooklyn 3, 16x16	Brooklyn 3, 16x16
Port Type	1 (RJ45), dedicated Dante port	1 (RJ45), dedicated Dante port	1 (RJ45), dedicated Dante port	1 (RJ45), dedicated Dante port	1 (RJ45), dedicated Dante port
Sample Rate	48kHz	48kHz	48kHz	48kHz	48kHz
AES67 Compatible	Yes	Yes	Yes	Yes	Yes

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
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AZM4-D / AZM8-D / AZMP4-D AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

Mechanical	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Airflow	Front to Back	Front to Back	Front to Back	Front to Back	Right to Left
Operating Ambient Temperature Range	0° - 40°C	0° - 40°C	0° - 40°C	0° - 40°C	0° - 40°C
Cooling System	Forced Air with Side and Back Panel Venting	Forced Air with Side and Back Panel Venting	Forced Air with Side and Back Panel Venting	Forced Air with Side and Back Panel Venting	Forced Air with Side Venting

Energy Consumption	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Max Power Consumption	40W	75W	875W	1750W	1750W

Front Panel	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Sceen	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"	128 x 128 Color TFT Normally White, 1.45"
Encoder / Buttons	24 Detent, Push Button Encoder	24 Detent, Push Button Encoder	24 Detent, Push Button Encoder	24 Detent, Push Button Encoder	Up, Down, and Enter buttons
Light Bar	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)	RGB (Blue/Green= On, Red = Fault)
Type					
Free Air Range					

Dimensions and Weight	AZM4-D	AZM8-D	AZMP4-D	AZMP8-D	AZMP8-DW
Rack Mount Requirements	1 RU, 19"	1 RU, 19"	1 RU, 19"	2 RU, 19"	n/a, on-wall form factor
Dimensions (with Rack Ears) - Unit	W 19" x H 1.75" x D 11.7" (483mm x 45mm x 297mm)	W 19" x H 1.75" x D 11.7" (483mm x 45mm x 297mm)	W 19" x H 1.75" x D 15.03" (483mm x 45mm x 432mm)	W 19" x H 3.45" x D 15.03" (483mm x 88mm x 432mm)	W 18.7" x H 28.5" x D 4" (475mm x 723mm x 100mm)
Dimensions (without Rack Ears) - Unit	W 17" x H 1.75" x D 11.7" (432mm x 45mm x 297mm	W 17" x H 1.75" x D 11.7" (432mm x 45mm x 297mm	W 17" x H 1.75" x D 15.03" (432mm x 45mm x 432mm)	W 17" x H 3.45" x D 15.03" (432mm x 88mm x 432mm)	n/a, on-wall form factor
Dimensions - Shipping	W 22" x H 4.75" x D 14" (559mm x 121mm x 356mm)	W 22" x H 4.75" x D 14" (559mm x 121mm x 356mm)	W 23.25" x H 4.75" x D 19.75" (591mm x 121mm x 502mm)	W 23.25" x H 7" x D 19.75" (591mm x 178mm x 502mm)	W 26" x H 35" x D 12" (650mm x 890mm x 308mm)
Weight - Unit	8.5lbs	8.5lbs	13lbs	20lbs	30.5lbs
Weight - Shipping	12.5lbs	12.5lbs	18.5lbs	27lbs	46lbs

Agency Approvals	All Dante Models
Safety	Conforms to: ANSI / UL 62368-1 Certified to: CAN / CSA C22.2 #6236
FCC / ISED	Part 15 (Class B) (US), ICES-003 (Canada)

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

Optional Accessories	
C-V / C-V-EU	Control Type: 24 Detents 360° Continuous Push Button Encoder Light Ring: RGB (Mute, Signal, Locate) Dimensions: 1.78" x 4.2" x 1.9" C-V Minimum Box Depth: 2.25"; C-V-EU Minimum Box Depth: 45mm EU Accessory includes optional box spacer plate. Minimum back box depth using included spacer = 30mm.
C-ZSV / C-ZSV-EU	Control Type: 24 Detents 360° Continuous Push Button Encoder Light Ring: RGB (Mute, Signal, Locate) Screen: 128 x 128 Color TFT C-ZSV Dimensions: 1.78" x 4.2" x 1.9"; C-ZSV-EU Dimensions: 3.46" x 4.49" x 1.86" C-ZSV Minimum Box Depth: 2.25"; C-ZSV-EU Minimum Box Depth: 45mm EU Accessory includes optional box spacer plate. Minimum back box depth using included spacer = 30mm.
A-RCA / A-RCA-EU	Right Channel Color: Red Left Channel Color: White Sensitivity: -10dBV (Same as AZM) Maximum Input Voltage: +8dBu Output Type: Mono Indicator: Green = Signal Presence, Red = Clip, Blue = Locate Dimensions: 1.78" x 4.2" x 1.5" A-RCA Minimum Box Depth: 2.25"; A-RCA-EU Minimum Box Depth: 45mm EU Accessory includes optional box spacer plate. Minimum back box depth using included spacer = 30mm.
A-XLR / A-XLR-EU	Sensitivity: +4dBu (Same as AZM Balanced Inputs) Connector Type: XLR (Female) Retaining Clip: Yes Phantom Power Voltage: +48VDC 10mA Accepts Unbalanced Inputs: Yes Input Gain: 0 - 60dB Maximum Voltage Input: +20dBu Input Impedance: 3.4kΩ EIN: 117dBu at 150Ω, 20kHz BW CMRR: Typically 50dB at 1kHz Indicator: Green = Signal Presence, Red = Clip, Blue = Locate A-XLR Dimensions: 1.79" x 4.20" x 2.1"; A-XLR-EU Dimensions: 3.46" x 4.49" x 2.1" A-XLR Minimum Box Depth: 3"; A-XLR-EU Minimum Box Depth: 55mm EU Accessory includes optional box spacer plate. Minimum back box depth using included spacer = 40mm.
A-BT / A-BT-EU	BT Standard: V4.2 Audio Profile: A2DP Open Air Range: 60ft Output Type: Mono NFC: Tap-to-Pair Indicator: Green = Paired, Red = Error, Blue = Pairing Mode Button: Pairs and Unpairs Devices Dimensions: 1.78" x 4.2" x 1.4" A-BT Minimum Box Depth: 2.25"; A-BT-EU Minimum Box Depth: 45mm EU Accessory includes optional box spacer plate. Minimum back box depth using included spacer = 30mm.

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AUDIO SPECIFICATIONS / PERFORMANCE

X-ANS / X-ANS-EU	Data Returned to AZM: Non-audio Calibration: RMS, A-weighted, SPL Range: 30 - 110dBSPL Indicator: Blue = Locate Dimensions: 1.78" x 4.2" x 1.4" X-ANS Minimum Box Depth: 2.25"; X-ANS-EU Minimum Box Depth: 45mm EU Accessory includes optional box spacer plate. Minimum back box depth using included spacer = 30mm.
X-ZPS	Screen Type: 4.3" TFT capacitive touch Mic Connector: Neutrik brand female XLR Mic Input Sensitivity: +4dBu XLR Retaining Clip: Yes Phantom Power: +48VDC 10mA Input Gain Range: 0 - 60dB Maximum Voltage Input: +20dBu Input Impedance: 3.4kΩ EIN: 117dBu at 150Ω, 20kHz BW CMRR: Typically 50dB at 1kHz Included Mic Polar Pattern: Cardioid SPL Maximum: 120dB Frequency Response: 70Hz - 16kHz Dynamic Range: >90 dB Light Ring: RGB Dimensions: 3.33" x 3.78" x 8.53" Housing Type: Cast aluminum Mounting: Table top or snap in plate

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

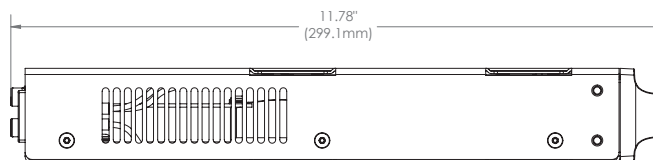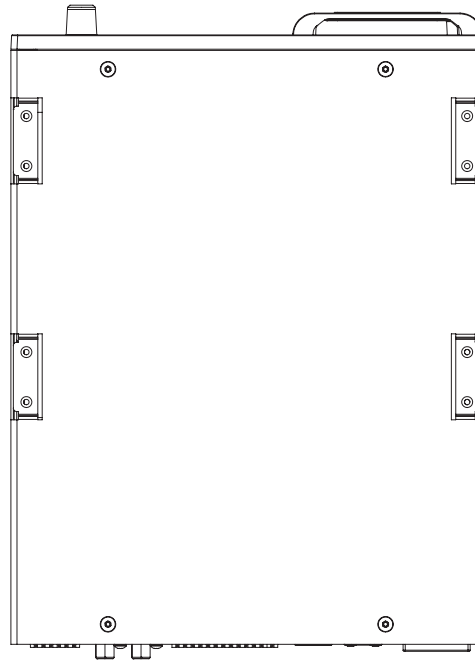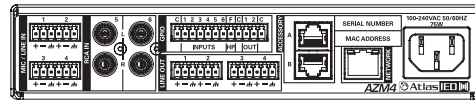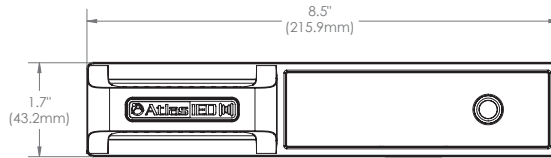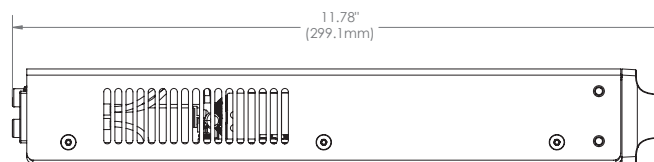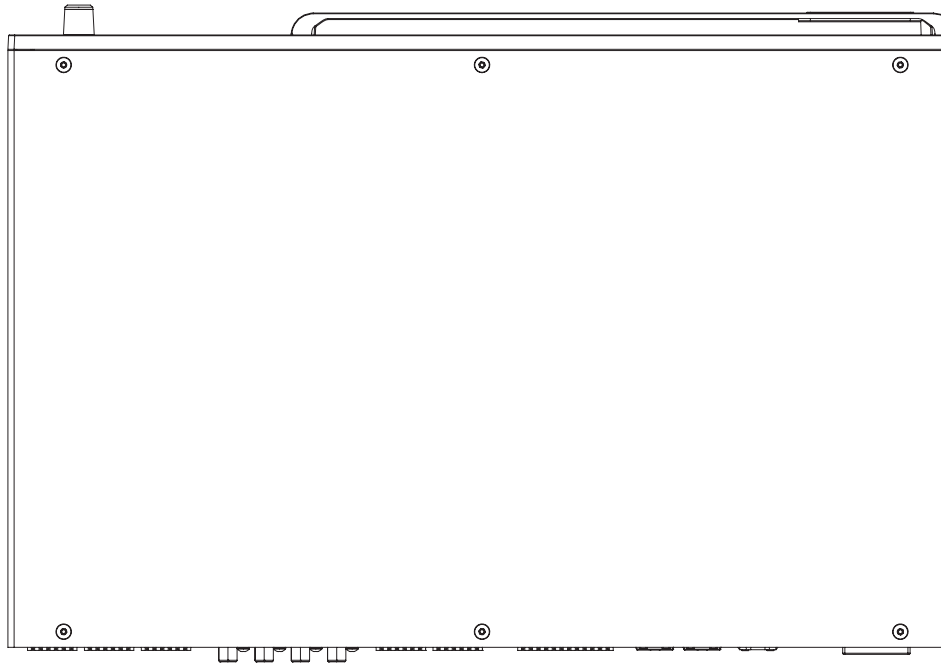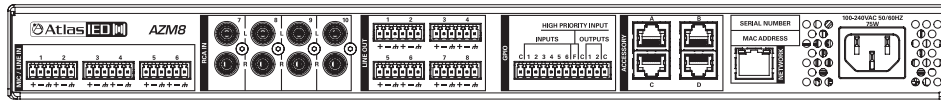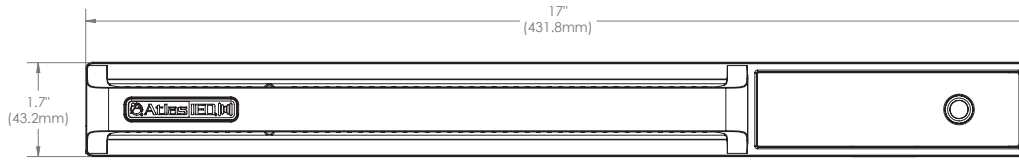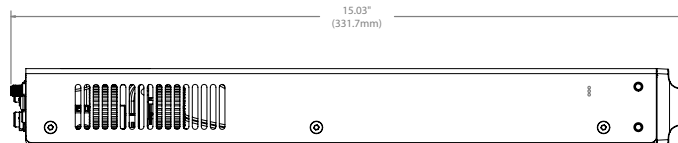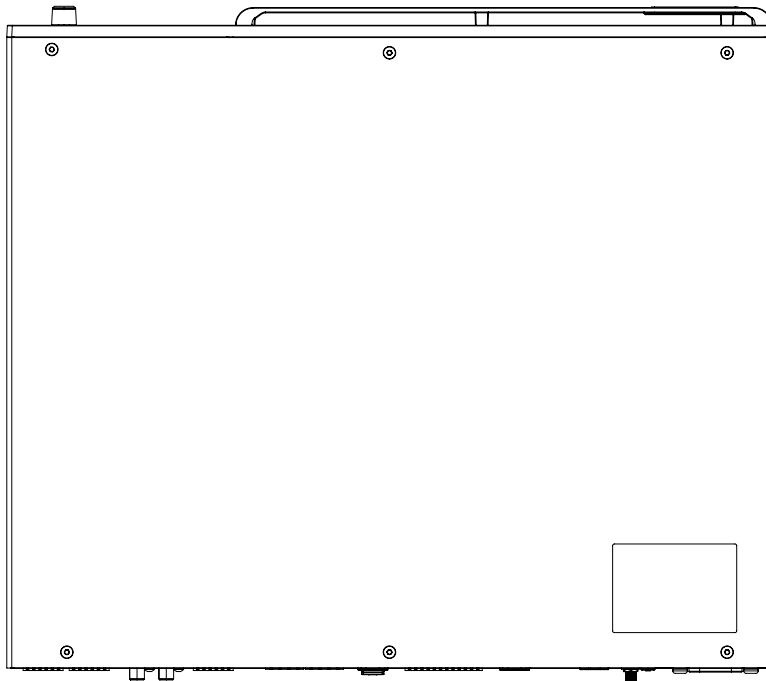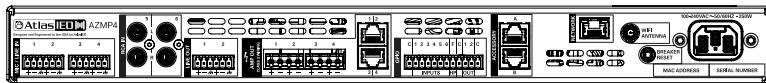**AZM4-D / AZM8-D / AZMP4-D AZMP8-D / AZMP8-DW**
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

AMPLIFIER OUTPUT SUMMARY (AZMP4, AZMP4-D, AZMP8, AZMP8-D, AND AZMP8-DW)

All amplified Atmosphere models utilize ground up, internally developed amplifier power sharing technology that allows for efficient use of available power and avoiding system overdesign due to traditional amplifier power ratings. The technology works in banks of 4 channels and has the ability to shift all available power supply power to a single channel or programmatically divide the available power supply power in any proportion to all channels. The technology does not simply rely on correct complex load calculations to divide power up but actively shapes the power to mimic the desired amplifier size per channel. Additionally, each output has the ability to independently operate in either HI-Z mode (25V, 48V, 70V, and 100V) or LOW-Z mode (4Ω or 8Ω). This methodology allows the amplifier to match the system design rather than the system design matching a convenient amp selection.

OUTPUT OPTIONS

Each amp channel can be assigned to traditional Euroblock connectors (5mm pitch) and/or an RJ45 connector that can be used with the SHS mini product line. When the RJ45 connector is utilized, the current is automatically limited to 1 Amp to protect the attached cable.
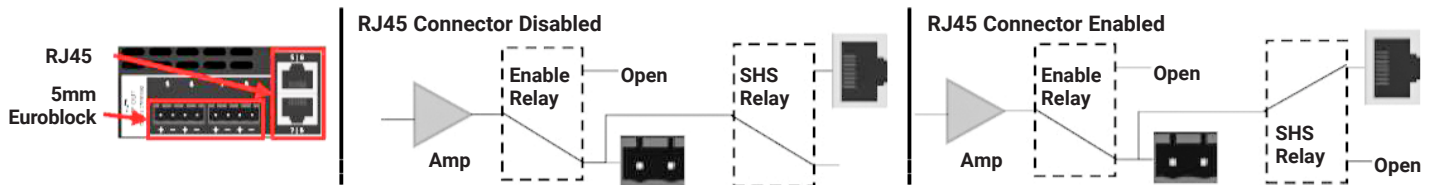
SELF TEST

Every AZMP has the ability to run an automated self diagnostic test that can highlight potential internal system issues (fan operation, relays, live faults, thermal issues, and power supply) and external system failures (loudspeaker failures based on changes in impedance and line voltage issues). A convenient scheduler feature allows the self diagnostic test to be defined and run on a regular basis. If any of the tests return a failed result the AZMP (internet connection required) can send an email notification to the party responsible for system maintenance.

POWER SHARING

The total power available for each bank of four channels is 615W. This can be split in 5W increments between all four channels (maximum power allowed to send to a single channel is 600W). Examples of compatible power sharing configurations shown the the images below.
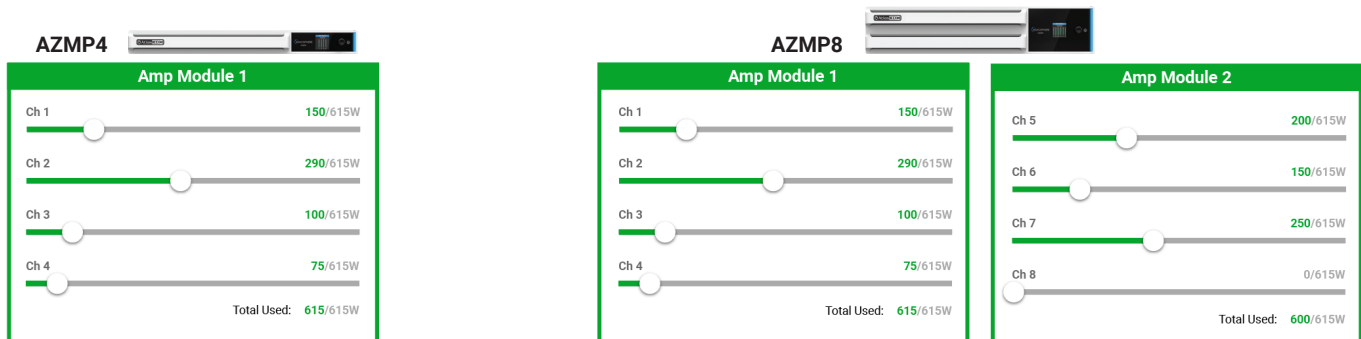
AMPLIFIER POWER SPECS

Due to the extreme flexibility of the amplifier the below specification chart is limited to the maximum single channel driven and a balanced (150W/CH) all channels drive scenarios.

Single Channel Driven

Time	4Ω	8Ω	25V	48V	70V	100V
CAF Max Power*	400	600	250	480	600	600

All Channels Evenly Driven (150W)

Time	4Ω	8Ω	25V	48V	70V	100V
CAF Max Power*	150	150	150	150	150	150

SHS Output

Time	4Ω	8Ω	25V	48V	70V	100V
CAF Max Power*	5	10	25	50	70	100

* = 15s continuous at 1kHz and rated THD%

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER
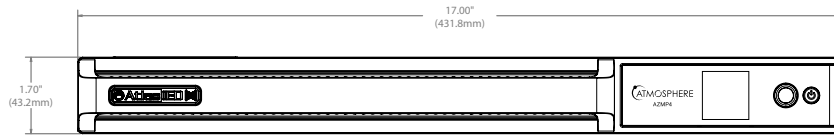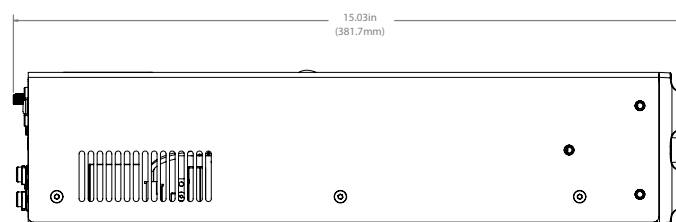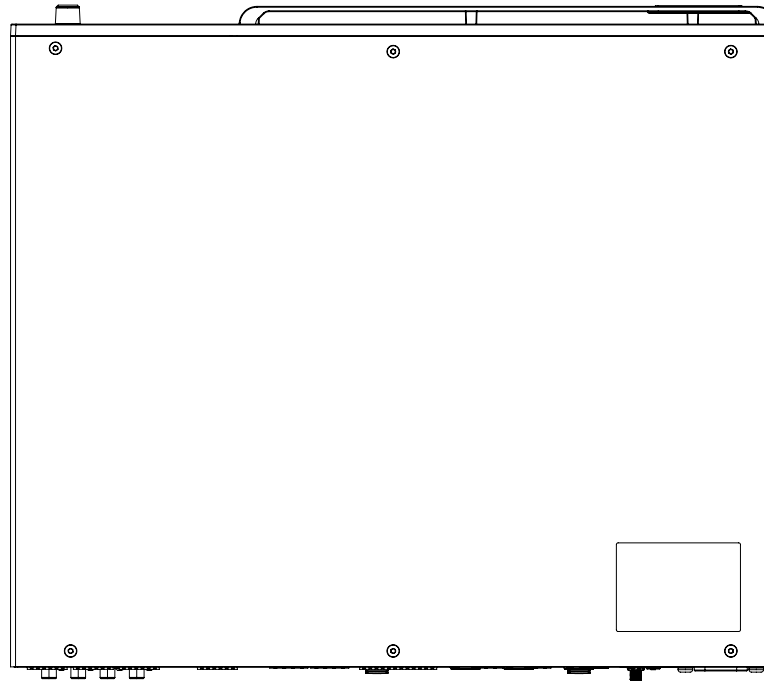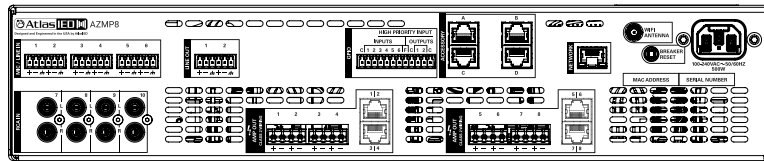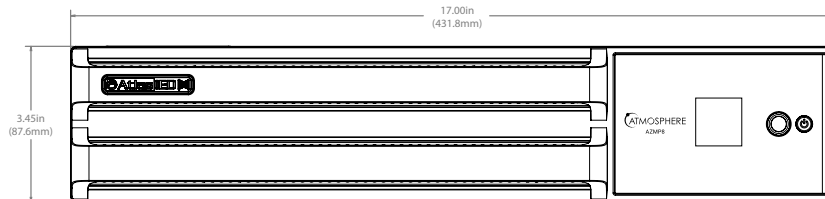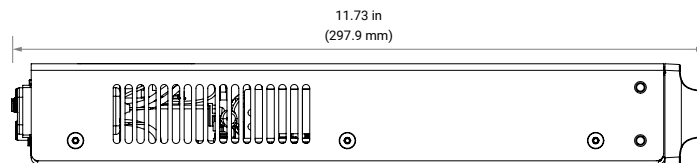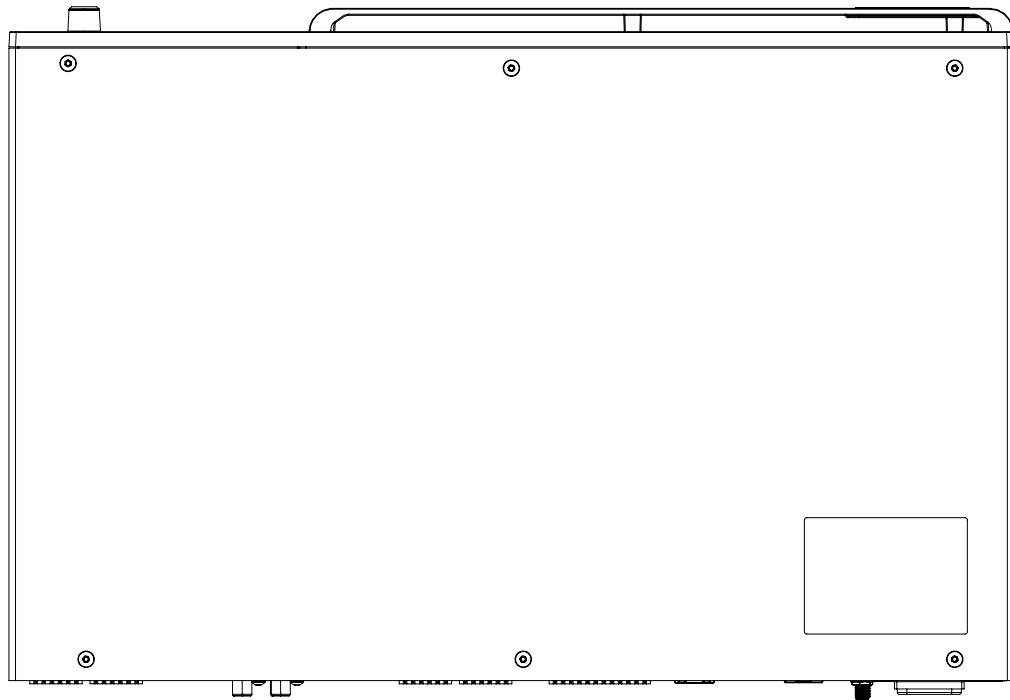
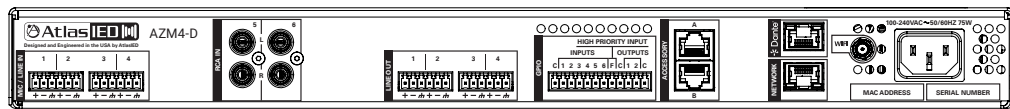# AZM4-D / AZM8-D / AZMP4-D AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

AZM4

8.5"
(215.9mm)

1.7"
(43.2mm)

11.78"
(299.1mm)

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

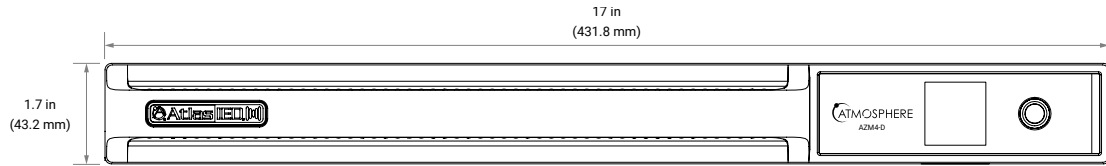# AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

DIMENSIONAL DRAWINGS

AZM8

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER

AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

DIMENSIONAL DRAWINGS

AZMP4

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

AZM4-D / AZM8-D / AZMP4-D
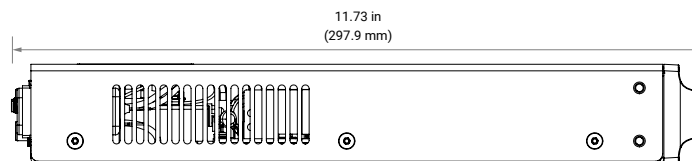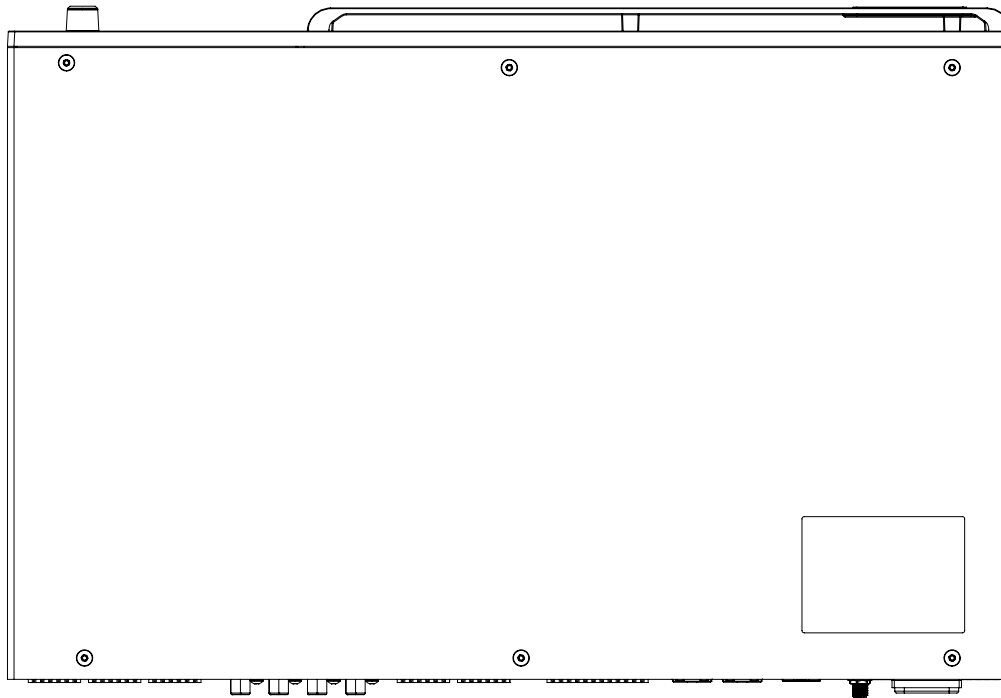# AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
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TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

AZMP8

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

AZM4-D / AZM8-D / AZMP4-D
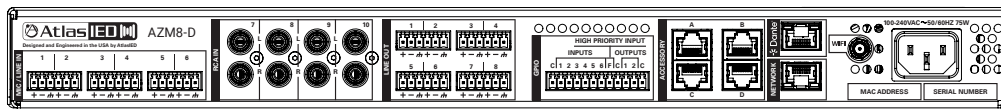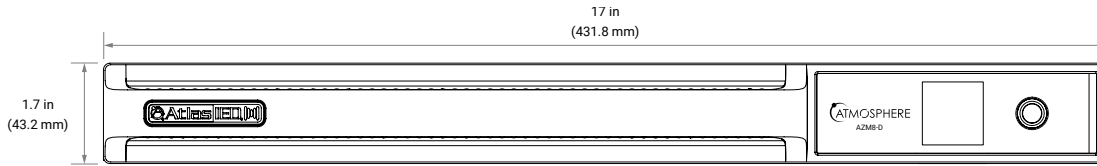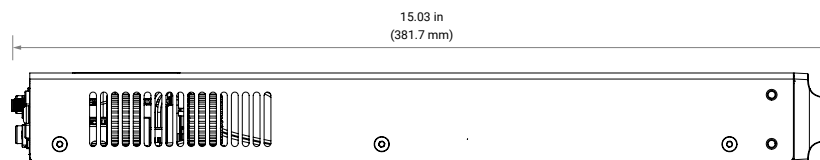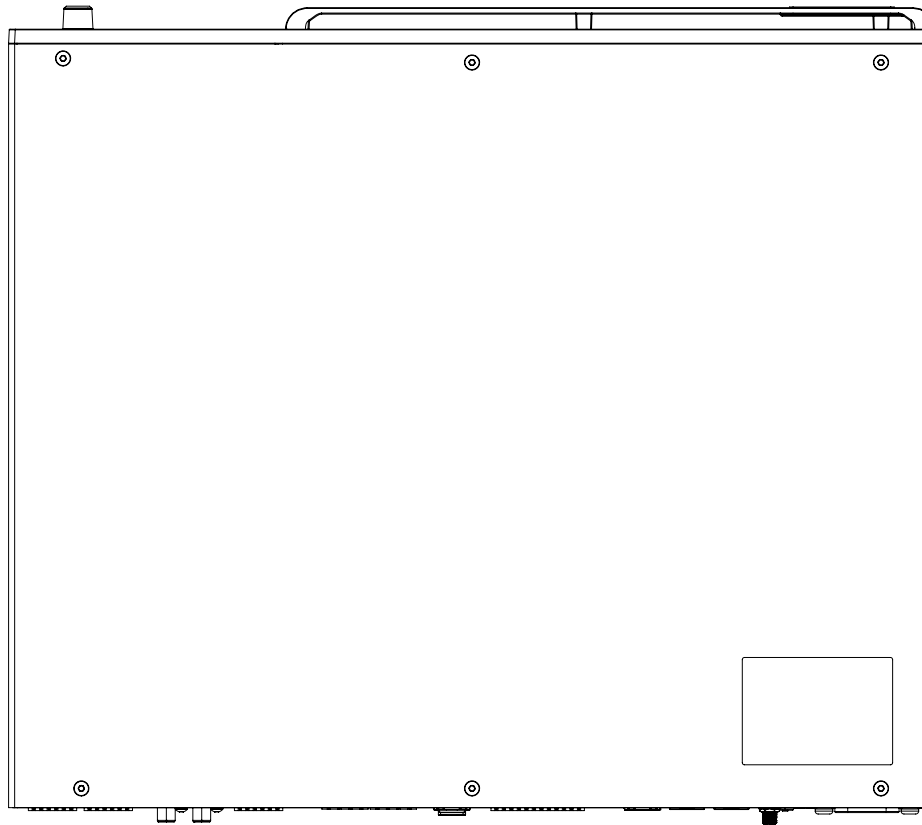## AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

AZM4-D

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER

AZM4-D / AZM8-D / AZMP4-D AZMP8-D / AZMP8-DW
ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

DIMENSIONAL DRAWINGS

AZM8-D

17 in
(431.8 mm)

1.7 in
(43.2 mm)

11.73 in
(297.9 mm)

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

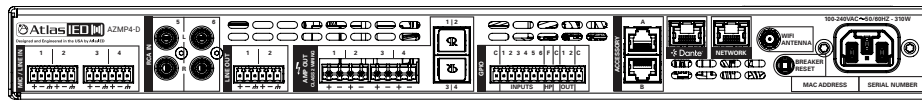# AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

AZMP4-D

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

AZM4-D / AZM8-D / AZMP4-D
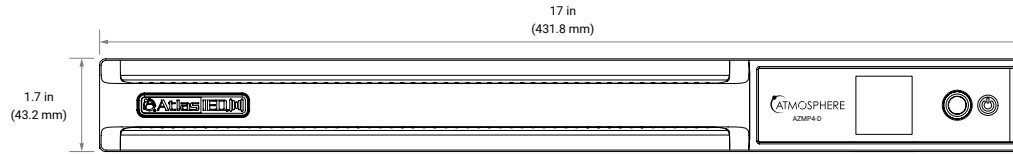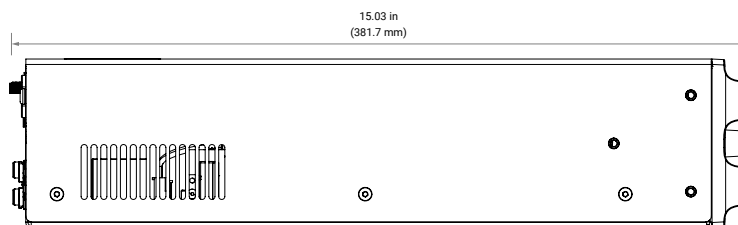# AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

AZMP8-D

17 in
(431.8 mm)

3.45 in
(87.6 mm)

15.03 in
(381.7 mm)

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

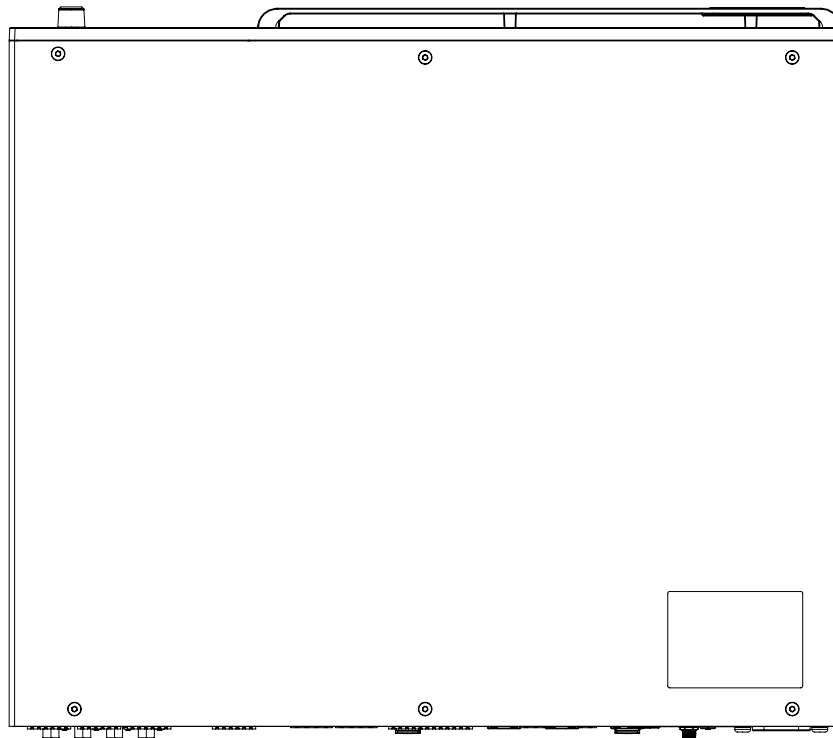# AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

AZMP8-DW

3.94 in
(100.1 mm)

28.48 in
(723.4 mm)

18.7 in
(475 mm)

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
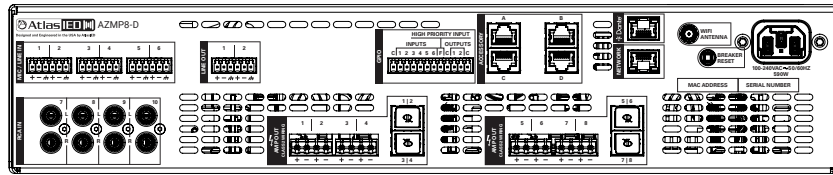AND AMPLIFIER**

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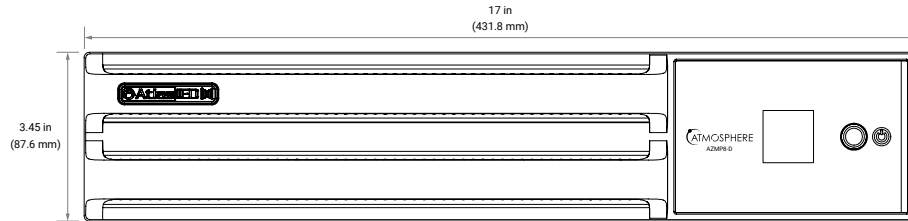# AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

C-V, C-ZSV, A-RCA, A-BT, and X-ANS share the same dimensions

A-XLR

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
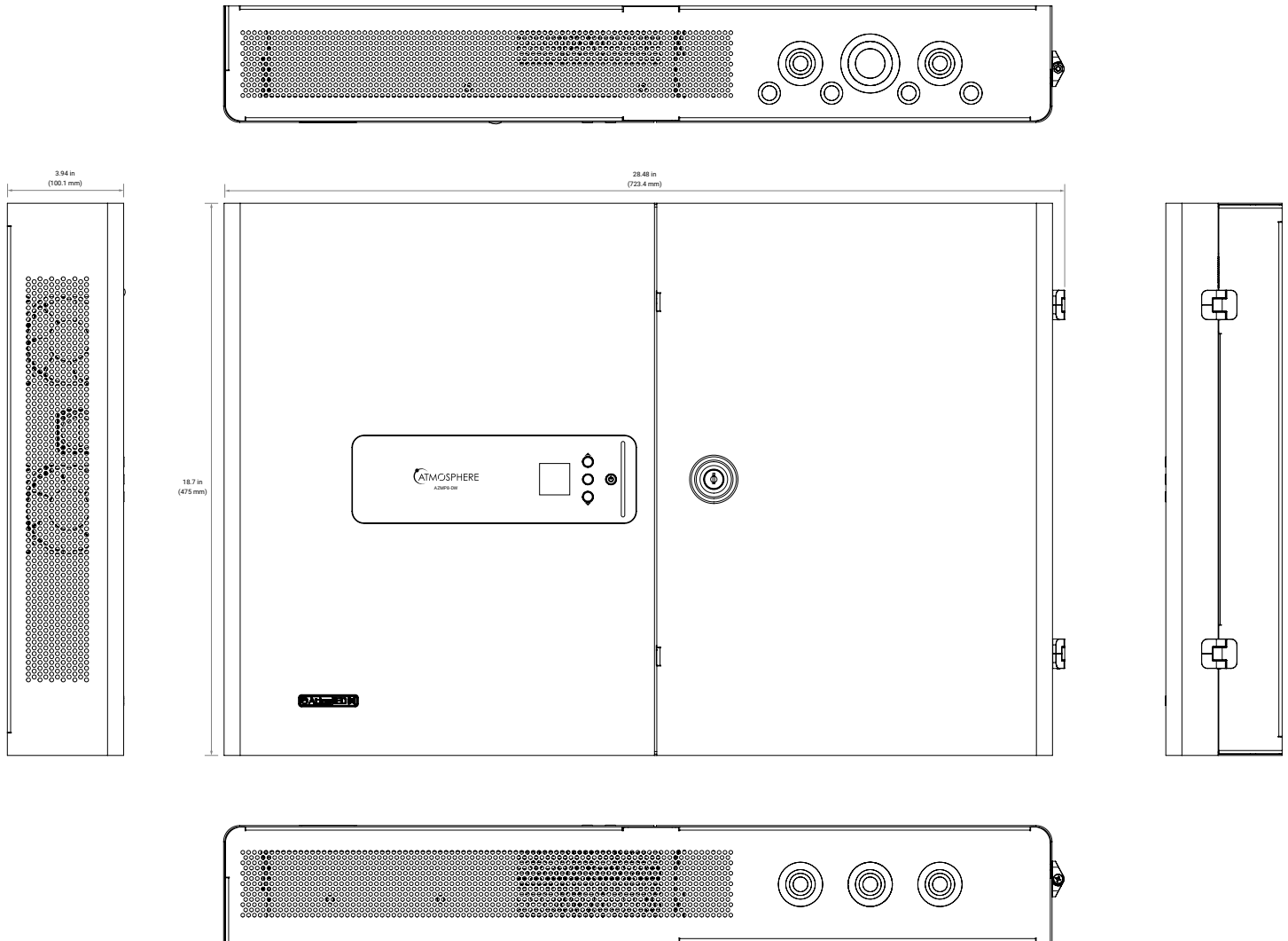AND AMPLIFIER

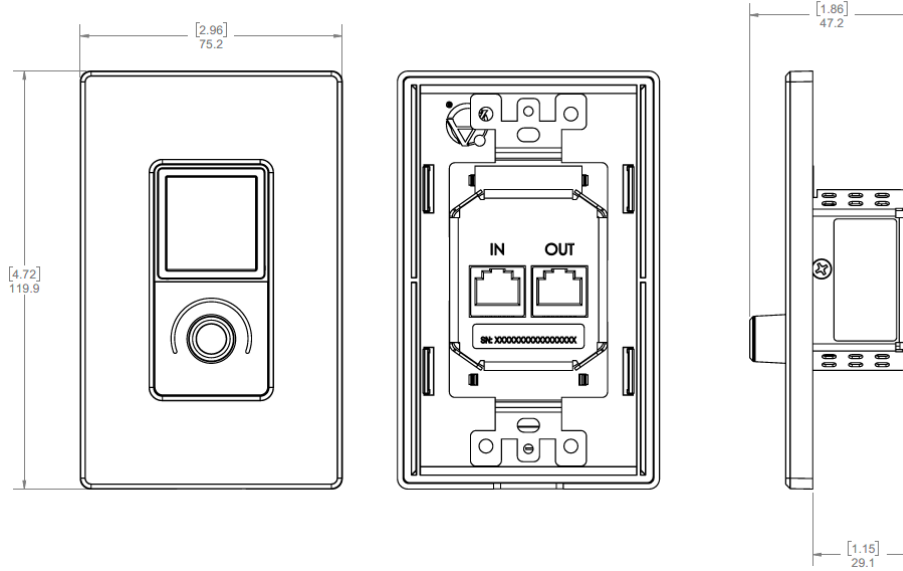**AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW**
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

C-V-EU, C-ZSV-EU, A-RCA-EU, A-BT-EU, and X-ANS-EU share the same dimensions

A-XLR-EU

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
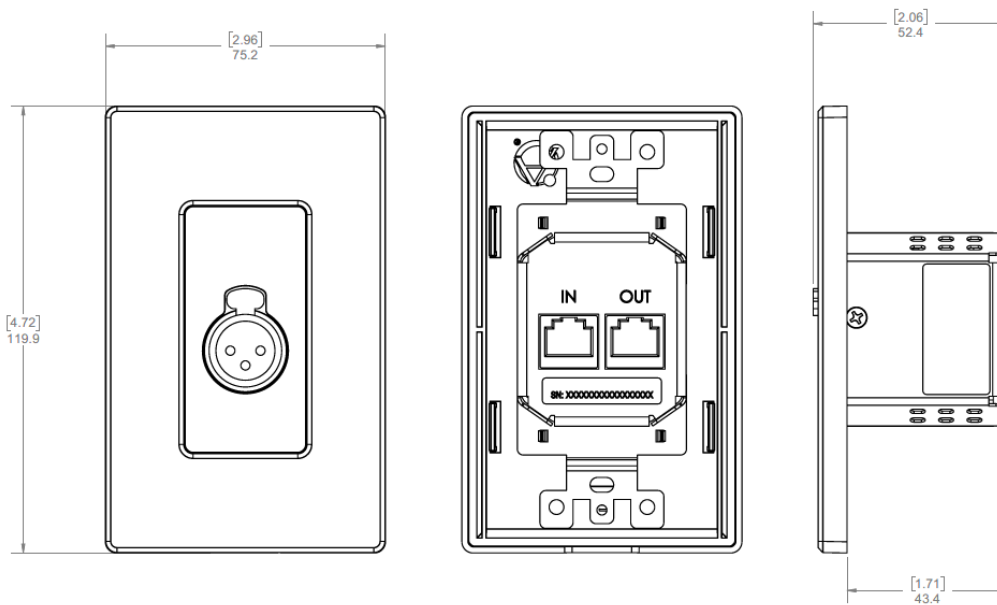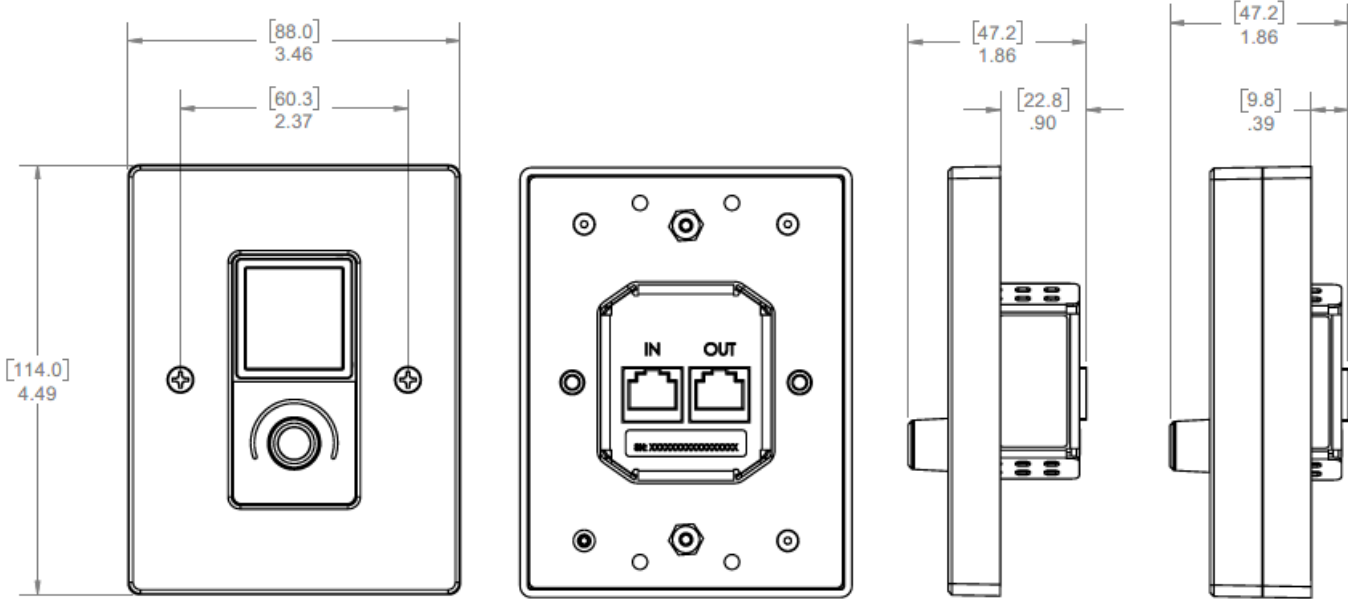**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

X-ZPS

[3.78in]
96.0mm

[8.53in]
216.6mm

[3.33in]
84.6mm

IN
OUT

X-ZPS with desk mount installed

[3.78in]
96.0mm

[8.66in]
219.9mm

[3.49in]
88.6mm

IN
OUT

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AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS

X-ZPS with 16" gooseneck mic installed

[18.13]
460.6

[16 in]
406mm

[3.78]
96.0

[8.53]
216.6

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ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

**AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW**
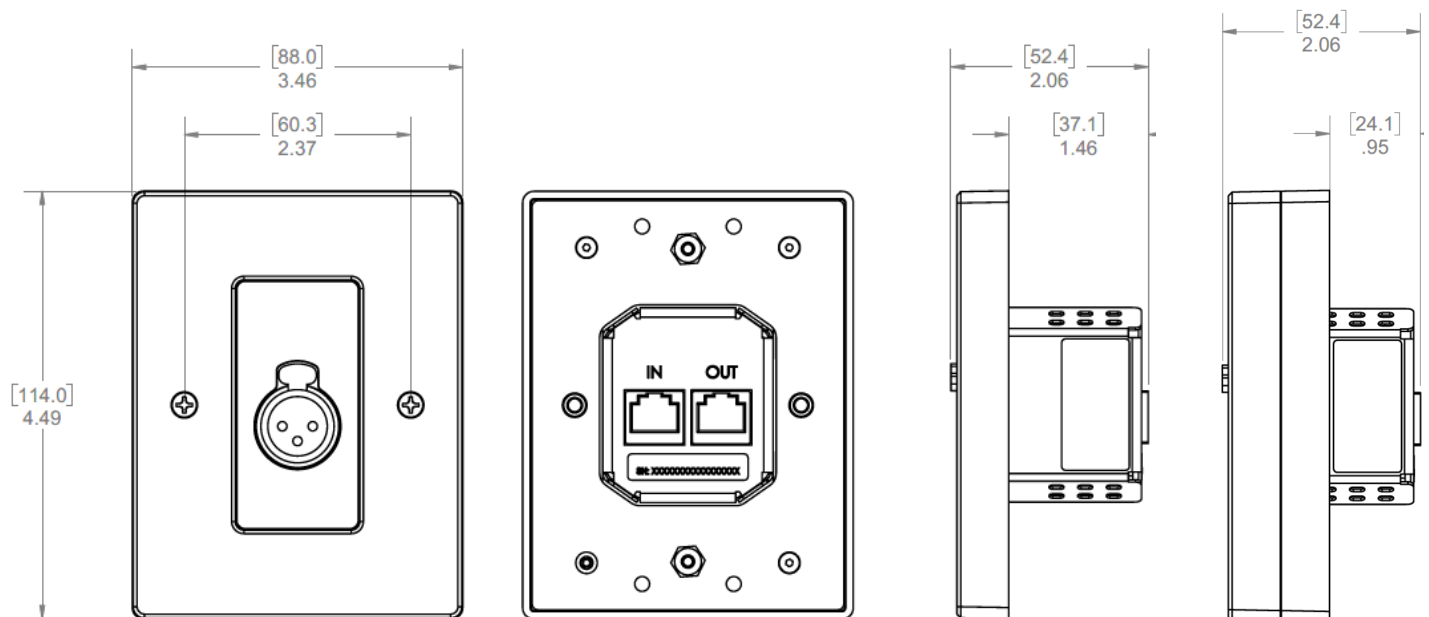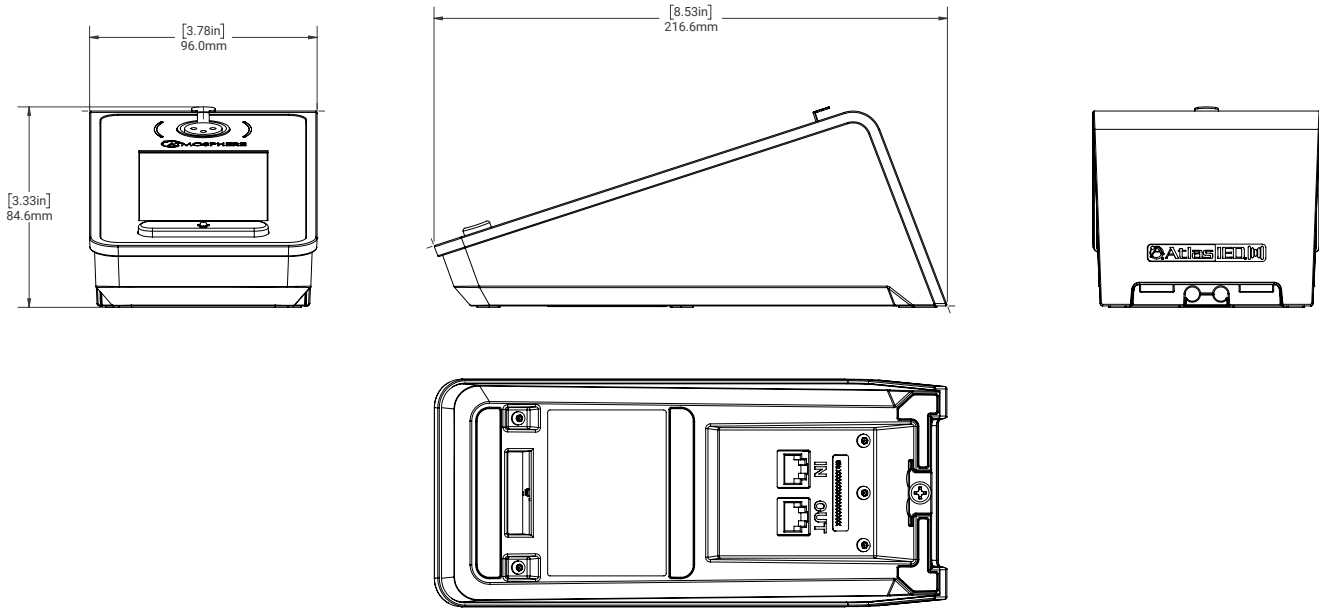ATMOSPHERE SIGNAL PROCESSOR
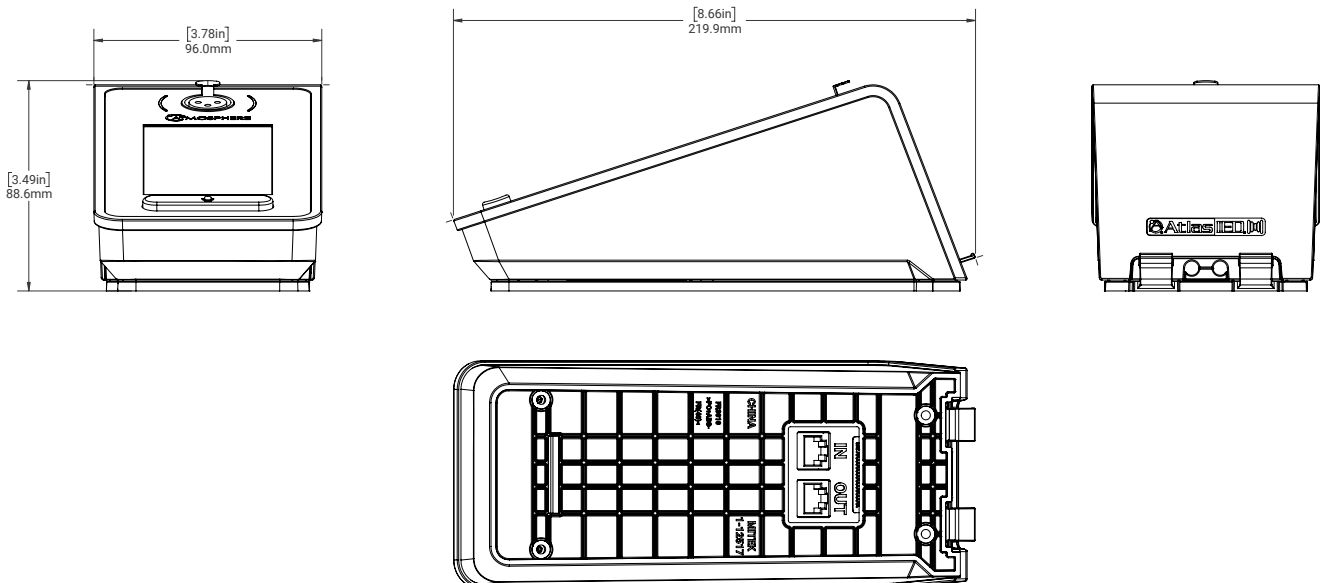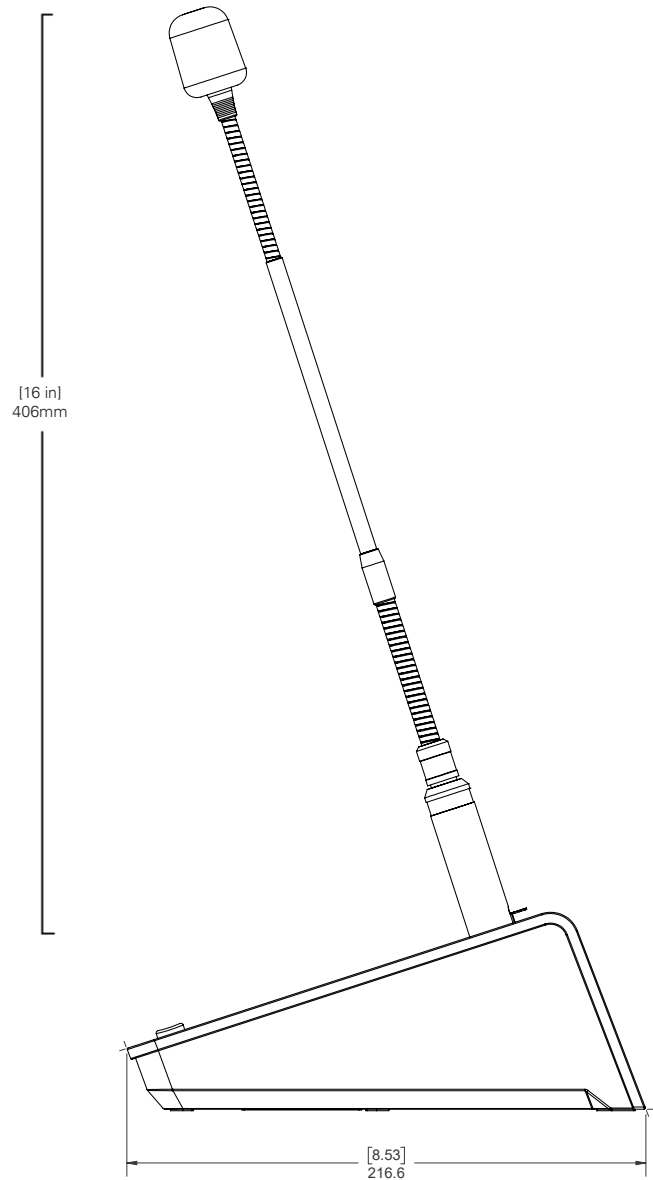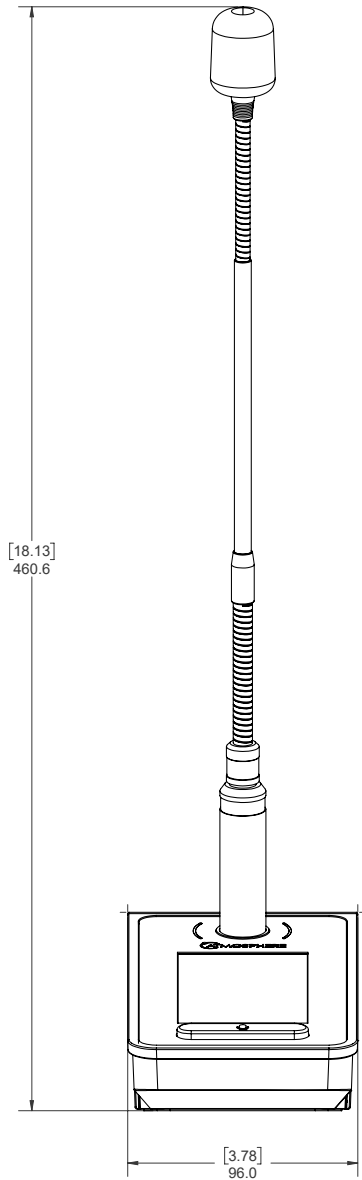AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM4 – V3.0

The audio zone processor shall be a six input by four output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to eight analog sources with optional accessories. It shall send these mixed, routed, and processed signals to as many as four monaural balanced line-level outputs, from which the signals would typically be amplified and played over loudspeakers in respective zones of a business or other venue.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have four 3-way 3.5mm Euroblock balanced mic or line level inputs and two RCA stereo summed inputs. The four Line level outputs shall have four 3-way 3.5mm Euroblocks. The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC.

The audio zone processor shall provide a web browser-based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A or B RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide four "Mixes" inputs each allowing a selection of any ten inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the four "Mixes" can be named and appear in the source list for selection by a zone output.

In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, and Limiter. The page shall have a link to the source setup page.

Up to 25 mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine room. The bell scheduler shall be able to accommodate multi-week bell schedule patterns as well as exception days.

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER

**AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW**
ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM4 – V3.0 (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have six Plug and Play smart Wall Plate optional accessories and a touchscreen paging station to expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen, table-mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, preset groups, zone control, action recall that includes; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, and other features combined with a high-quality, gooseneck microphone.

The audio multi-zone mixer shall be a 1RU-1.75"H x ½ rack wide (8.5") x 11.7" deep chassis with rack ears, hardware, and 1RU-19" full rack width adapter included. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Max Energy Consumption (with Accessories) =130 BTU/hour; Frequency response shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone processor shall be an AtlasIED Atmosphere™ AZM4.

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AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM8 – V3.0

The audio zone processor shall be a ten input by eight output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to ten analog sources with optional accessories. It shall send these mixed, routed, and processed signals to as many as eight monaural balanced line-level outputs, from which the signals would typically be amplified and played over loudspeakers in respective zones of a business or other venue.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have six 3-way 3.5mm Euroblock balanced mic or line level inputs and four RCA stereo summed inputs. The eight Line level outputs shall have eight 3-way 3.5mm Euroblocks. The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC.

The audio zone processor shall provide a web browser-based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A, B, C, or D ports.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input Mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A, B, C, or D RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide eight "Mixes" inputs each allowing a selection of any fourteen inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the eight "Mixes" can be named and appear in the source list for selection by a zone output.

In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, and Limiter. The page shall have a link to the source setup page.

Up to 25 mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate multi-week bell schedule patterns as well as exception days.

AZM4 / AZM8
ATMOSPHERE SIGNAL PROCESSOR

AZMP4 / AZMP8
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER**

AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM8 – V3.0 (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have six Plug and Play smart Wall Plate optional accessories and a touch screen paging station to expand the capabilities and allow for scalability. Four RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table-mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that includes; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, and other features combined with a high-quality, gooseneck microphone.

The audio multi-zone mixer shall be a 1RU-1.75"H x 19"W x 11.7" deep chassis with rack ears hardware included. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Max Energy Consumption (with Accessories) =256 BTU/hour; Frequency response shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone processor shall be an AtlasIED Atmosphere™ AZM8

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ATMOSPHERE SIGNAL PROCESSOR AND AMPLIFIER WITH DANTE

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP4 – V3.0

The audio zone system shall be a six input by four output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to six analog sources with optional accessories. It shall send these four mixed, routed, and processed signals to any combination of the available four amplified or two monaural line outputs from which the signals would typically be played over loudspeakers in respective zones of a business or other venue.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have four 3-way 3.5mm Euroblock balanced mic or line level inputs and two RCA stereo summed inputs. The four amplified outputs shall have two 4-way 5mm Euroblocks and the two line outputs shall utilize a single 6-way 3.5mm Euroblock connector. The amplified outputs shall be routed to RJ45 connectors and enabled via the web UI. Each channel pair shall (1-2, 3-4) be routed to a single RJ45 connector.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ground ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC.

The audio zone processor shall provide a web browser-based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A or B RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide four "Mixes" inputs each allowing a selection of any ten inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the four "Mixes" can be named and appear in the source list for selection by a zone output.

In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker voicing Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, Limiter, and Amplifier. The page shall have a link to the source setup page.

Up to 25 mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate multi-week bell schedule patterns as well as exception days.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP4 – V3.0 (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have six Plug and Play smart Wall Plate optional accessories and a touch screen paging station to

expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, and 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that include; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, and other features combined with a high-quality, gooseneck microphone.

All powered outputs shall be capable of delivering up to 600W as measured using CAF standards. Each bank of four powered outputs shall be capable of delivering a combined 615W as measured using CAF standards. Each powered output shall have the ability to drive low impedance loads ranging from 4Ω to 8Ω and constant voltage loads ranging from 25V to 100V. Each amp channel load setting shall be configurable independently. The available 615W shall be split amongst the banks of four amplified outputs (1-4) in increments of 5W. The amplified outputs shall have the ability to read the load impedance in real time. Each amplified output shall be able to enter a standby by mode that reduces energy consumption based on threshold and hold time controls. The amplified outputs shall be protected against short circuit, HF, DC inputs, and thermal overload. All amplified outputs shall have the ability to perform a self-test that includes, power supply, AC line, relay, fan, temperature, fault, and loudspeaker impedance checks. The self-test shall have the ability to be scheduled on a weekly or monthly basis.

The audio multi-zone system shall be a 1RU-1.70"H x full rack wide (19") x 15.03" deep chassis with rack ears. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Max Energy Consumption (all amplified channels idle, no audio passing, and no accessories) = 160 BTU/ hour; Frequency response for line outputs shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone system shall be an AtlasIED Atmosphere™ AZMP4.

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AZM4-D / AZM8-D / AZMP4-D
AZMP8-D / AZMP8-DW
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AND AMPLIFIER WITH DANTE

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ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP8 – V3.0

The audio zone system shall be a ten input by eight output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to ten analog sources with optional accessories. It shall send these eight mixed, routed, and processed signals to any combination of the available eight amplified or two monaural line outputs from which the signals would typically be played over loudspeakers in respective zones of a business or other venue.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset.

The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have six 3-way 3.5mm Euroblock balanced mic or line level inputs and four RCA stereo summed inputs. The eight amplified outputs shall have four 4-way 5mm Euroblocks and the two line outputs shall utilize a single 6-way 3.5mm Euroblock connector. The amplified outputs shall be routed to RJ45 connectors and enabled via the web UI. Each channel pair shall (1-2, 3-4, 5-6, 7-8) be routed to a single RJ45 connector.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC.

The audio zone processor shall provide a web browser based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A, B, C, or D RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide eight "Mixes" inputs each allowing a selection of any fourteen inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the eight "Mixes" can be named and appear in the source list for selection by a zone output.

In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones. Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker voicing Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, Limiter, and Amplifier. The page shall have a link to the source setup page.

Up to 25 mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP8 – V3.0 (continued)

selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate mult-week bell schedule patterns as well as exception days.

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have six Plug and Play smart Wall Plate optional accessories and a touch screen paging station to expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, and 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that include; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, other and features combined with a high-quality, gooseneck microphone.

All powered outputs shall be capable of delivering up to 600W as measured using CAF standards. Each bank of four powered outputs shall be capable of delivering a combined 615W as measured using CAF standards. Each powered output shall have the ability to drive low impedance loads ranging from 4Ω to 8Ω and constant voltage loads ranging from 25V to 100V. Each amp channel load setting shall be configurable independently. The available 615W shall be split amongst the banks of four amplified outputs (1-4) in increments of 5W. The amplified outputs shall have the ability to read the load impedance in real time. Each amplified output shall be able to enter a standby by mode that reduces energy consumption based on threshold and hold time controls. The amplified outputs shall be protected against short circuit, HF, DC inputs, and thermal overload. All amplified outputs shall have the ability to perform a self-test that includes, power supply, AC line, relay, fan, temperature, fault, and loudspeaker impedance checks. The self-test shall have the ability to be scheduled on a weekly or monthly basis.

The audio multi-zone system shall be a 2RU-3.45"H x full rack wide (19") x 15.03" deep chassis with rack ears. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Max Energy Consumption (all amplified channels idle, no audio passing, and no accessories) = 280 BTU/ hour; Frequency response for line outputs shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone system shall be an AtlasIED Atmosphere™ AZMP8.

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ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM4-D

The audio zone processor shall be a six input by four output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to eight analog sources with optional accessories. It shall send these mixed, routed, and processed signals to as many as four monaural balanced line-level outputs, from which the signals would typically be amplified and played over loudspeakers in respective zones of a business or other venue. Additionally, the device shall include 16 Dante/AES67 receivers and 16 Dante/AES67 transmitters using a Brooklyn 3 with a sample rate of 48kHz.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have four 3-way 3.5mm Euroblock balanced mic or line level inputs and two RCA stereo summed inputs. The four Line level outputs shall have four 3-way 3.5mm Euroblocks.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC. There shall be one RJ45 network port for control/communication, and one network port for Dante networked audio.

The audio zone processor shall provide a web browser-based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A or B RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide four "Mixes" inputs each allowing a selection of any ten inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the four "Mixes" can be named and appear in the source list for selection by a zone output. In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, and Limiter. The page shall have a link to the source setup page.

Mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine room. The bell scheduler shall be able to accommodate multi-week bell schedule patterns as well as exception days.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM4-D (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have seven Plug and Play smart Wall Plate optional accessories and a touchscreen paging station to expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen, table-mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, preset groups, zone control, action recall that includes; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, and other features combined with a high-quality, gooseneck microphone.

The audio multi-zone mixer shall be a 1RU-1.75"H x 19"W x 11.7" deep chassis with rack ears hardware included. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Frequency response shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone processor shall be an AtlasIED Atmosphere™ AZM4.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM8-D

The audio zone processor shall be a ten input by eight output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to ten analog sources with optional accessories. It shall send these mixed, routed, and processed signals to as many as eight monaural balanced line-level outputs, from which the signals would typically be amplified and played over loudspeakers in respective zones of a business or other venue. Additionally, the device shall include 16 Dante/AES67 receivers and 16 Dante/AES67 transmitters using a Brooklyn 3 with a sample rate of 48kHz.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have six 3-way 3.5mm Euroblock balanced mic or line level inputs and four RCA stereo summed inputs. The eight Line level outputs shall have eight 3-way 3.5mm Euroblocks.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC. There shall be one RJ45 network port for control/communication, and one network port for Dante networked audio.

The audio zone processor shall provide a web browser-based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A, B, C, or D ports.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input Mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A, B, C, or D RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide eight "Mixes" inputs each allowing a selection of any fourteen inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the eight "Mixes" can be named and appear in the source list for selection by a zone output. In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, and Limiter. The page shall have a link to the source setup page.

Mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate multi-week bell schedule patterns as well as exception days.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZM8-D (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have seven Plug and Play smart Wall Plate optional accessories and a touch screen paging station to expand the capabilities and allow for scalability. Four RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table-mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that includes; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, and other features combined with a high-quality, gooseneck microphone.

The audio multi-zone mixer shall be a 1RU-1.75"H x 19"W x 11.7" deep chassis with rack ears hardware included. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Frequency response shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone processor shall be an AtlasIED Atmosphere™ AZM8.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP4-D

The audio zone system shall be a six input by four output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to six analog sources with optional accessories. It shall send these four mixed, routed, and processed signals to any combination of the available four amplified or two monaural line outputs from which the signals would typically be played over loudspeakers in respective zones of a business or other venue. Additionally, the device shall include 16 Dante/AES67 receivers and 16 Dante/AES67 transmitters using a Brooklyn 3 with a sample rate of 48kHz.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have four 3-way 3.5mm Euroblock balanced mic or line level inputs and two RCA stereo summed inputs. The four amplified outputs shall have two 4-way 5mm Euroblocks and the two line outputs shall utilize a single 6-way 3.5mm Euroblock connector. The amplified outputs shall be routed to RJ45 connectors and enabled via the web UI. Each channel pair shall (1-2, 3-4) be routed to a single RJ45 connector.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ground ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC. There shall be one RJ45 network port for control/communication, and one network port for Dante networked audio.

The audio zone processor shall provide a web browser-based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic-Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A or B RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide four "Mixes" inputs each allowing a selection of any ten inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the four "Mixes" can be named and appear in the source list for selection by a zone output. In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker voicing Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, Limiter, and Amplifier. The page shall have a link to the source setup page.

Mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate multi-week bell schedule patterns as well as exception days.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP4-D (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have seven Plug and Play smartWall Plate optional accessories and a touch screen paging station to expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, and 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that include; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, and other features combined with a high-quality, gooseneck microphone

All powered outputs shall be capable of delivering up to 600W as measured using CAF standards. Each bank of four powered outputs shall be capable of delivering a combined 615W as measured using CAF standards. Each powered output shall have the ability to drive low impedance loads ranging from 4Ω to 8Ω and constant voltage loads ranging from 25V to 100V. Each amp channel load setting shall be configurable independently. The available 615W shall be split amongst the banks of four amplified outputs (1-4) in increments of 5W. The amplified outputs shall have the ability to read the load impedance in real time. Each amplified output shall be able to enter a standby by mode that reduces energy consumption based on threshold and hold time controls. The amplified outputs shall be protected against short circuit, HF, DC inputs, and thermal overload. All amplified outputs shall have the ability to perform a self-test that includes, power supply, AC line, relay, fan, temperature, fault, and loudspeaker impedance checks. The self-test shall have the ability to be scheduled on a weekly or monthly basis.

The audio multi-zone system shall be a 1RU-1.70"H x full rack wide (19") x 15.03" deep chassis with rack ears. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Frequency response for line outputs shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone system shall be an AtlasIED Atmosphere™ AZMP4.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP8-D

The audio zone system shall be a ten input by eight output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to ten analog sources with optional accessories. It shall send these eight mixed, routed, and processed signals to any combination of the available eight amplified or two monaural line outputs from which the signals would typically be played over loudspeakers in respective zones of a business or other venue. Additionally, the device shall include 16 Dante/AES67 receivers and 16 Dante/AES67 transmitters using a Brooklyn 3 with a sample rate of 48kHz.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have six 3-way 3.5mm Euroblock balanced mic or line level inputs and four RCA stereo summed inputs. The eight amplified outputs shall have four 4-way 5mm Euroblocks and the two line outputs shall utilize a single 6-way 3.5mm Euroblock connector. The amplified outputs shall be routed to RJ45 connectors and enabled via the web UI. Each channel pair shall (1-2, 3-4, 5-6, 7-8) be routed to a single RJ45 connector.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC. There shall be one RJ45 network port for control/communication, and one network port for Dante networked audio.

The audio zone processor shall provide a web browser based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic/Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A, B, C, or D RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide eight "Mixes" inputs each allowing a selection of any fourteen inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the eight "Mixes" can be named and appear in the source list for selection by a zone output. In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker voicing Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, Limiter, and Amplifier. The page shall have a link to the source setup page.

Mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate mult-week bell schedule patterns as well as exception days.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP8-D (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have seven Plug and Play smart Wall Plate optional accessories and a touch screen paging station to expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, and 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that include; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, other and features combined with a high-quality, gooseneck microphone.

All powered outputs shall be capable of delivering up to 600W as measured using CAF standards. Each bank of four powered outputs shall be capable of delivering a combined 615W as measured using CAF standards. Each powered output shall have the ability to drive low impedance loads ranging from 4Ω to 8Ω and constant voltage loads ranging from 25V to 100V. Each amp channel load setting shall be configurable independently. The available 615W shall be split amongst the banks of four amplified outputs (1-4) in increments of 5W. The amplified outputs shall have the ability to read the load impedance in real time. Each amplified output shall be able to enter a standby by mode that reduces energy consumption based on threshold and hold time controls. The amplified outputs shall be protected against short circuit, HF, DC inputs, and thermal overload. All amplified outputs shall have the ability to perform a self-test that includes, power supply, AC line, relay, fan, temperature, fault, and loudspeaker impedance checks. The selftest shall have the ability to be scheduled on a weekly or monthly basis.

The audio multi-zone system shall be a 2RU-3.45"H x full rack wide (19") x 15.03" deep chassis with rack ears. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Frequency response for line outputs shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone system shall be an AtlasIED Atmosphere™ AZMP8.

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TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP8-DW

The audio zone system shall be a ten input by eight output configuration networked device suitable for digitally selecting, combining, mixing, routing, and processing audio signals from up to ten analog sources with optional accessories. It shall send these eight mixed, routed, and processed signals to any combination of the available eight amplified or two monaural line outputs from which the signals would typically be played over loudspeakers in respective zones of a business or other venue. Additionally, the device shall include 16 Dante/AES67 receivers and 16 Dante/AES67 transmitters using a Brooklyn 3 with a sample rate of 48kHz.

The front panel shall have a dynamic bar-graph or clock display showing the assigned IP address and each of the Zone output levels (default). A Menu Navigation encoder control knob shall be available to configure and interrogate settings and faults directly. It shall also be used to perform a Factory Reset. The far-right side of the front panel shall have a Status LED bar that lights Solid Blue when in normal operation and Flashes Red when a Fault is detected.

The rear panel shall have six 3-way 3.5mm Euroblock balanced mic or line level inputs and four RCA stereo summed inputs. The eight amplified outputs shall have four 4-way 5mm Euroblocks and the two line outputs shall utilize a single 6-way 3.5mm Euroblock connector. The amplified outputs shall be routed to RJ45 connectors and enabled via the web UI. Each channel pair shall (1-2, 3-4, 5-6, 7-8) be routed to a single RJ45 connector.

The rear panel shall also have six General Purpose Inputs, one High Priority input, two outputs, and 3 common ports on a 12-position Euroblock. GPI ports shall be configurable in settings for contact closure (NO) or 0-12VDC with 1.3VDC minimum trigger voltage. GPO ports shall have source current of 10ma at 2VDC, maximum sink current of 180ma, and maximum sink voltage of 24VDC. There shall be one RJ45 network port for control/communication, and one network port for Dante networked audio.

The audio zone processor shall provide a web browser based intuitive GUI (Graphic User Interface) for configuring sources, zones, and easy setup of processor controls and DSP settings. The GUI shall be accessible by network over a wired LAN, WiFi, or set as a Hot-Spot, with configurable security levels. The GUI shall have an overview dashboard for monitoring with quick links to settings pages for adjusting functions in real time. GUI individual setup page categories shall include: Dashboard, Sources, Zones, Messages, GPIO, Scenes, Routines, Accessories, Scheduler, Diagrams, and Settings.

Sources shall have an ADD SOURCE selection that allows user to Name and configure source type, Mono or Stereo, and select an available Input port or Lt-Rt-ports, and a Color for visual reference. Input ports shall include: Mic-Line, RCA, and Audio Accessories on A and B port.

Each of the Balanced Mic/Line Sources shall have an editable Name window, dynamic bar-graph-display with fader and simulated LED "active" indicators for Gate, De Ess, and Comp, an input Mute, and a Link to open the input respective DSP GUI pages. The GUI shall have pages for GENERAL Settings that include: Preamp Gain of 0-60dB with +4dB sensitivity = 0dB; +48V Phantom; 12dB/Oct HPF, and additional DSP settings pages for Gate, De-Esser, Compressor, Equalizer (4-Band), and Auto-Gain. The page shall have a link to the source setup page.

Each of the -10dBV-RCA stereo summed Sources shall have an editable Name window, dynamic bar-graph-display, fader, an input mute, and a Link to the input respective GUI page for GENERAL Settings (Input Gain), and DSP settings (Same as Mic/Line). Two physical inputs (Mic/Line, RCA, or wall plate) shall be required to configure Stereo to Zones.

The Sources section shall provide GUI pages for Audio Wall Plate sources which will become Active when an Audio Wall Plate is terminated to the respective A, B, C, or D RJ45 buss port. Once assigned to a Source, General Settings and DSP settings pages shall identify the type of audio Wall Plate and display the appropriate DSP.

The Sources section shall also provide eight "Mixes" inputs each allowing a selection of any fourteen inputs to be combined into a sub-mix to provide a single audio fader adjustment for the group. Each of the eight "Mixes" can be named and appear in the source list for selection by a zone output. In addition, the Sources section shall include a signal oscillator configurable as Freq selectable-Sine wave, white noise, or pink noise. Controls shall be Enable (ON/OFF), Output Level, and shall be available in the source list at all outputs for assignment to zones.

Each of the Zones shall have an editable Name window, Input Source select, dynamic bar-graph-display with fader and simulated LED "active" indicators for Limiter and Priority, Mute, and a Link to the input respective DSP pages. The GUI shall have pages for GENERAL Settings that include Input Priority setup; AtlasIED Speaker voicing Preset select; output Delay adjust; and DSP settings pages for Priority, Crossover, Equalizer, ANC (Ambient Noise Compensation), Noise Detection, Limiter, and Amplifier. The page shall have a link to the source setup page.

Mobile devices shall be capable of being used as virtual zone controllers by scanning a QR code with an on-network device. The accessories settings page shall provide access to settings of connected accessories, graphic depiction of connected accessories and their order, the ability to rename accessories, a trigger for the locate function on the accessories, the ability to enable or disable the self-heal function, a link to adding placeholder devices, a QR code preview for devices that are capable, and a link to the front panel configuration page. After configuring screen capable accessories, a QR Code shall display in the GUI and can also be printed. A wall-mount frame for printed QR code shall be included.

The audio processor shall have the ability to combine zones to create a zone group (Room Combine) that is controllable from all assigned wall controllers and virtual wall controllers. Groups created shall be able to include one to four zones. Zones within the group shall have an assigned zone level offset of -20dB to +20dB.

The audio processor shall have an onboard bell scheduler. The bell scheduler shall have the ability to hold up to ten ring lists with each containing up to fifty ring events. Each ring event shall have opt-in capability for each zone and group that has been created within the system. Each ring event shall allow the selection of a separate audio file to be played, recall of a routine, recall of a scene, recall of a GPO preset, combine a room, or uncombine a room. The bell scheduler shall be able to accommodate mult-week bell schedule patterns as well as exception days.

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**ATMOSPHERE SIGNAL PROCESSOR
AND AMPLIFIER WITH DANTE**

TECHNICAL DATA SHEET

ARCHITECT AND ENGINEER SPECS

AtlasIED Atmosphere™ AZMP8-DW (continued)

Each created zone shall have a link to a masking control page when opted in under the Add Zone setup page. The page shall include an enable toggle control, toggle control for pink and white noise, a masking gain slider control, a Tilter Filter™ slider control, a low pass enable control, and a low pass enable control. There shall be a method to reduce or increase the masking gain by up to 12dB. A 20 band GEQ with a single slider control per band shall be available to shape the noise source. There shall be a link to a 7-day scheduler that allows for the masking system to be turned off/on via a ramp process for opted in days. The scheduler day shall also provide settings to commission a system by ramping the target gain up over a timeframe of up to 30 days and set a start date/time to begin the commissioning process.

In addition, the audio zone processor shall have seven Plug and Play smart Wall Plate optional accessories and a touch screen paging station to expand the capabilities and allow for scalability. Two RJ45 digital bus ports shall be available on the rear panel to terminate accessories using up to 1000' of Cat5e/6 non-shielded cable. One Audio Wall Plate is allowed per port and any control accessory shall be capable of daisy chaining on a single cable digital bus and assigned to any zone. A maximum of sixteen total accessories shall be possible with a reduced number when the touch screen paging station is used. Accessories shall include 3 x Audio Inputs; balanced Mic / Line XLR, dual RCA stereo summed with 3.5mm, and mono summed or stereo Bluetooth® audio wall plate inputs; 2 x Controllers; Volume Controls, Volume Controls with Source Select, Scene Recall, GPO Trigger, Routine Recall, Daily Bell Schedule Selection, and 1 x Ambient Noise Sensor for Zone Ambient Noise Compensation control, and a touch screen table mount paging mic station. The X-ZPS Paging Station accessory, connected by one of the accessory ports (1 X-ZPS per accessory port), shall provide all call, creation of dynamic paging groups, zone control, action recall that include; routine recall, scene recall, GPO preset recall, message recall, bell schedule change, preset groups, other and features combined with a high-quality, gooseneck microphone.

All powered outputs shall be capable of delivering up to 600W as measured using CAF standards. Each bank of four powered outputs shall be capable of delivering a combined 615W as measured using CAF standards. Each powered output shall have the ability to drive low impedance loads ranging from 4Ω to 8Ω and constant voltage loads ranging from 25V to 100V. Each amp channel load setting shall be configurable independently. The available 615W shall be split amongst the banks of four amplified outputs (1-4) in increments of 5W. The amplified outputs shall have the ability to read the load impedance in real time. Each amplified output shall be able to enter a standby by mode that reduces energy consumption based on threshold and hold time controls. The amplified outputs shall be protected against short circuit, HF, DC inputs, and thermal overload. All amplified outputs shall have the ability to perform a self-test that includes, power supply, AC line, relay, fan, temperature, fault, and loudspeaker impedance checks. The selftest shall have the ability to be scheduled on a weekly or monthly basis.

The audio multi-zone system shall be a 18.7"H x 28.5"W x 4" deep chassis for wall mount. AC mains shall be 100-240 VAC, 50-60Hz - C14 Mains Inlet Connector; Frequency response for line outputs shall be: +/-.5dB 20Hz-20kHz > 110dB "A" weighted; S/N >108dB unweighted, >110dB "A" weighted. Max Bal-Line Output Level = +20dBu (7.75Vrms).

The audio zone system shall be an AtlasIED Atmosphere™ AZMP8.

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