



TECHNICAL WHITE PAPER

The MA Series

Streaming Amplifiers

A 3rd-generation platform for high-end residential and commercial audio distribution. This paper covers architecture, signal path, eAudioCast deployment, configuration options, and positioning for the MA6 , MA4 streaming amplifiers, shipping January 2026.

Autonomic Controls, Inc.

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01 · EXECUTIVE SUMMARY

A new streaming amplifier platform.

In 2026, Autonomic Controls extends its M-Series amplifier line with two new products engineered specifically for the modern streaming installation: the MA6 flagship six-zone streaming amplifier and the MA4 four-zone powerhouse. Both are built on the company's fourth-generation M-Series platform and ship alongside the existing M-6250 matrix amplifier launched in 2025.

Where prior generations treated streaming as an addition to a matrix amplifier, the MA Series treats it as the architecture. Three independent streams (two on MA4) feed every zone with bit-perfect AirPlay 2 support, routed through a fully configurable DSP chain, and amplified at 120 W per channel into 8 Ω — 350 W bridged. Across the line, dealers see one preamp/DAC architecture, one control surface, one DSP engine, and one eAudioCast fabric.

Built for the integrator. Designed for your clients.



MA6 (top) and MA4 (bottom) — shared chassis language, brushed aluminum face, 2U rack form factor.

02 · PLATFORM EVOLUTION

Fourteen years of M-Series engineering.

The MA Series is the third major evolution of an amplifier line that has shipped continuously since 2012. Each generation has added capability without breaking the fundamental promise of the platform: that an integrator can specify, install, and service Autonomic amplification with confidence that the product will outlive the project.

Generation 1 — M-800 Matrix Amplifier (2012)

First Autonomic amplifier. Launched alongside the M400 streamer as a discrete two-box solution. Established the matrix-zone topology and the chassis language that the line still carries today.

Generation 2 — M-801e Matrix Amplifier (2016)

First Autonomic amplifier with eAudioCast — the company's low-latency audio distribution protocol over IP. Launched alongside the M-401e streamer and M-120e amplifier; the e-series cemented network audio as a first-class citizen of the platform.

Generation 3 — M-6250 Matrix Amplifier (2025)

A flexible six-zone matrix distribution amplifier. 55 W/channel into 8 Ω , two additional preamp zones, eight inputs (four analog RCA, two digital coax, two optical), and eAudioCast 2.0. The entry point into the fourth-generation platform. The M-6250 is a non streaming matrix amplifier designed to stand along with external source equipment, or to augment the MA6/MA4 line with additional zones when additional streaming sources is not required.

Generation 4 — MA6 & MA4 Streaming Amplifiers (2026)

Native streaming amplifiers. Three (MA6) or two (MA4) independent streaming engines, AirPlay 2 in every zone, fully configurable DSP, and the most powerful per-channel output Autonomic has ever shipped — 120 W into 8 Ω , 180 W into 4 Ω , 350 W bridged 8 Ω only.

03 · PRODUCT OVERVIEW

Two amplifiers. One platform.

The MA6 and MA4 share preamp/DAC architecture, control and UI, DSP engine, and eAudioCast — a common I/O philosophy and installer workflow across the line. The decision the integrator makes is zone count and preamp output count; the rest of the platform is constant.



Front panels — MA4 (top) and MA6 (bottom). The MA6 carries a front-panel display for at-a-glance status; the MA4 is display-free for tighter rack budgets.

MA6 — Flagship 6-Zone Streaming Amplifier

The MA6 is the line’s reference product: six amplified stereo zones, three concurrent streams, AirPlay 2 routable to any zone, and a fully equipped preamp section with two additional zones offering analog RCA, digital coax, and optical outputs.

STREAMING	3 streams · AirPlay 2 in every zone
AMPLIFIED ZONES	6 stereo (12 channels)
POWER	120 W/ch @ 8 Ω · 180 W/ch @ 4 Ω · 350 W bridged (8 Ω only)
PREAMP ZONES	2 additional (analog RCA, digital coax, optical)
INPUTS	4× analog RCA · 2× digital coax · 2× optical

TRIGGER INPUTS	4× 5–24 V AC/DC
TRIGGER OUTPUTS	8× 12 V (100 mA)
MAINS	100–240 V AC · 50/60 Hz · 1800 W max
FORM FACTOR	2U rack · brushed aluminum face



MA6 — three-quarter view. Display-equipped front panel and ventilated chassis sized for sustained continuous output.

MA4 — 4-Zone Powerhouse

The MA4 brings the same per-channel power and platform architecture as the MA6 to a four-zone footprint. Specified for installations where four amplified zones meet the design intent and the savings are best invested in speakers, acoustics, or finish materials elsewhere in the project.

S T R E A M I N G	2 streams · AirPlay 2 in every zone
A M P L I F I E D Z O N E S	4 stereo (8 channels)
P O W E R	120 W/ch @ 8 Ω · 180 W/ch @ 4 Ω · 350 W bridged (8 Ω only)
P R E A M P Z O N E S	1 additional (analog RCA)
I N P U T S	2× analog RCA · 2× digital coax
T R I G G E R I N P U T S	4× 5–24 V AC/DC
T R I G G E R O U T P U T S	6× 12 V (100 mA)
M A I N S	100–240 V AC · 50/60 Hz · 1440 W max
F O R M F A C T O R	2U rack · brushed aluminum face

MA6 vs. MA4 — Side by Side

Shared platform; differentiated by zone count, stream count, preamp outputs, and total system power. Choose by the project, not by the spec sheet.

	M A 6	M A 4
S T R E A M S	3	2
A M P L I F I E D Z O N E S	6 stereo	4 stereo
C H A N N E L S	12	8
P O W E R P E R C H A N N E L	120 W @ 8 Ω	120 W @ 8 Ω
B R I D G E D	350 W (8 Ω)	350 W (8 Ω)
P R E A M P Z O N E S	2 (RCA/Coax/Opt)	1 (RCA)
I N P U T S	4 RCA · 2 Coax · 2 Opt	2 RCA · 2 Coax
T R I G G E R O U T	8× 12 V	6× 12 V
F R O N T D I S P L A Y	Yes	No

	M A 6	M A 4
M A I N S M A X	1800 W	1440 W
M S R P	\$5,999	\$4,499

04 · ARCHITECTURE

Signal path, DSP, power, and thermals.



Rear panels — MA4 (top) and MA6 (bottom). Class-2 wiring on phoenix-style speaker terminals; preamp outputs on RCA with optical and coax on the MA6 zones 7 and 8.

Streaming engine

Three independent streaming engines on the MA6 (two on MA4) feed the zone matrix. Each stream runs a full streaming-service stack — including AirPlay 2 — and resolves at the bit depth and sample rate of the source up to the platform’s internal processing rate. Streams are not bound to zones; any stream can be routed to any zone, with concurrent multi-room playback handled by eAudioCast.

Input matrix

Four analog RCA pairs, two digital coax, and two optical inputs (MA6) feed a unified input matrix that, with the streaming engines, presents up to thirteen distinct sources. The MA4 reduces this to two analog RCA pairs and two digital coax inputs while preserving the same matrix architecture.

DSP chain

Every input, every output, and every streaming service routes through a fully configurable DSP filter chain. Available blocks include gain, delay, parametric EQ, low-pass and high-pass filters, and mono sum. Mixing and ducking blocks are scheduled for a near-term firmware update. The chain is fully reorderable and saved per-zone, input, or stream allowing per-room compensation, distributed-system delay alignment, and source-specific tuning without external processors.

Power amplification

Each amplified zone delivers 120 W per channel into 8 Ω or 180 W per channel into 4 Ω , RMS continuous. Adjacent zones can be bridged for 350 W into 8 Ω only — recommended for subwoofer feeds and high-SPL spaces. The MA6 ships with a 1800 W mains supply (T15AL/250V protection); the MA4 with 1440 W (T10AL/250V).

Thermal design

Both products are 2U rack form factor with passive convection cooling supplemented by quiet, temperature-controlled forced-air paths. Top, side, and rear venting positions allow rack-density installations without thermal derating at moderate ambient temperatures. The brushed aluminum face is structural, not cosmetic — it ties into the chassis as a heat path.



Rear-panel detail — Class-2 phoenix terminals, gold-flash RCA, and ETL/CE/FCC marks.

05 · EAUDIOCAST & TOPOLOGY

Networked audio, deployable.

eAudioCast is Autonomic's audio-over-IP transport. Introduced on the M-801e in 2016 and now in its 2.0 revision, it carries bit-perfect audio between Autonomic devices over standard managed Ethernet with deterministic timing suitable for synchronized multi-room playback.

Single-rack deployment

A single MA6 or MA4 functions as a self-contained streaming amplifier. Network connectivity provides streaming-service access and remote control; eAudioCast is dormant. This is the typical residential single-zone-stack deployment.

Multi-rack deployment

Multiple MA-Series amplifiers — and existing M-Series products supporting eAudioCast — can be combined to extend zone count and preamp coverage across a building. The eAudioCast fabric carries source audio and synchronization between racks; each device retains its own DSP and amplification. Eight zones become twelve, sixteen, or more with no degradation in synchronization, and any source can be routed to any zone in the system.

Mixed-product deployment

eAudioCast is backwards-compatible with prior-generation devices. An installation may pair an MA6 in the equipment rack with an M-6250 in a remote location, or extend an existing M-801e site with a new MA4. Cross-generation compatibility is a deliberate platform commitment.

06 · USE CASES

Residential, commercial, marine.

Residential

Whole-home audio distribution in single-family residences and luxury multi-dwelling units. Typical specifications place an MA6 in the central equipment closet with six in-ceiling zones (kitchen, great room, primary suite, study, exterior, gym) and the two preamp zones feeding a media room subwoofer and an in-wall stereo pair. AirPlay 2 in every zone resolves the most common streaming-source request in this market without an additional appliance.

Commercial

Hospitality, retail, professional services, and small-format venues. The MA4 is the typical specification — four amplified zones for lobby, dining, bar, and restroom or back-of-house, with the preamp output feeding a 70 V distributed system through an external transformer amplifier. Trigger I/O integrates with paging, life-safety mute, and HVAC control.

Marine

Yacht and large-vessel installations where rack space is constrained, redundant power is standard, and synchronized exterior/interior audio is a daily-use requirement. The MA Series' 100–240 V universal mains, low-power standby, and eAudioCast multi-rack support map directly onto these constraints.

07 · CONFIGURABLE STORAGE

Factory-installed local libraries.

Both amplifiers can be specified with factory-installed NVMe SSD storage for local music libraries, presets, and backup. Storage is high-speed and high-quality; capacity is the integrator's decision.

CONFIGURATIONS	1 TB · 2 TB · 4 TB · 8 TB
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DRIVE TYPE	High-speed, high-quality NVMe SSD
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INSTALLATION	Factory-fitted at order time
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DEALER INCENTIVE	50 points across all dealer tiers
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Specifying storage at order time is preferred to field installation: it preserves the ETL listing, the factory thermal envelope, and the manufacturer warranty without conditional clauses.

TuneBridge+ — Cloud Services

TuneBridge+ extends the on-device TuneBridge experience with cloud-backed services that solve the operational problems integrators run into during the first three years of an installation's life.

Included features

- Multi-home syncing — a single client account spans multiple homes with consistent zone, source, and preset state.
- Cloud configuration backup — the entire device configuration, including DSP chains, is mirrored to the cloud and restorable to a replacement unit.
- Proactive device monitoring — health, temperature, and connectivity telemetry surfaces in the dealer portal before the client calls.
- Additional features to be announced through 2026.

Pricing & terms

STARTING PRICE	\$99 / year
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INCLUDED	Two years free with each new MA-Series amplifier
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OPTIONALITY	Completely optional — no cloud dependency for core function
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PLANS	3-year and 5-year prepaid plans available
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DEALER INCENTIVE	40 points for dealer-managed plans
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EXTENDED WARRANTY	Available when purchased at point of sale
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08 · DSP ENGINE

A configurable filter chain, end to end.

The MA Series carries a unified DSP engine that operates on every input, every output, and every streaming service in the system. The chain is fully reorderable and the configuration is portable across the line — a tuning developed on an MA6 in a flagship project transfers to MA4 deployments without rework.

Available DSP blocks

- Gain — per stage, with calibration headroom for level-matching across sources.
- Delay — per zone, supporting time-alignment and lip-sync correction in distributed-video scenarios.
- Parametric EQ — multi-band, fully assignable.
- Low-pass and high-pass filters — variable slope, used for crossover work and subwoofer integration.
- Mono sum — for stereo-to-mono distribution and corridor/exterior zones.
- Mixing — multi-source blending with per-source gain (firmware update, near-term).
- Ducking — automatic level reduction in response to a priority source (firmware update, near-term).

The DSP engine is designed to evolve. New blocks ship as firmware updates against the existing platform; the architecture has been sized with explicit headroom for future signal-processing primitives.

09 · POSITIONING & PRICING

Where the MA Series sits in the line.

The MA Series does not replace the M-6250; it extends the line upward. Specify the M-6250 where streaming is provided externally and the requirement is matrix distribution at a competitive price point. Specify the MA Series where streaming is part of the brief and per-channel power matters.

M - 6 2 5 0	Matrix distribution amplifier · 55 W/ch · \$3,999 MSRP
M A 4	4-zone streaming amplifier · 120 W/ch · \$4,499 MSRP
M A 6	6-zone streaming amplifier · 120 W/ch · \$5,999 MSRP

Choose by zone count and preamp outputs. The platform is the same.

Availability

The MA6 and MA4 ship in January 2026. Preorder is open at autonomic.biz, available direct from Autonomic and through authorized distribution partners. Existing dealers should expect demo-program allocations to ship ahead of general availability; contact your account representative for placement.

10 · CONTACT & NEXT STEPS

Specifying the MA Series.

Pre-launch technical questions, architecture review, and demo-unit scheduling are routed through Autonomic's product engineering team. For dealer onboarding, sales operations, and pricing in non-standard markets, contact your distribution representative.

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Web

autonomic.biz · Discover the new Autonomic Amplifiers and place preorders online.

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