



TOURING LINE

Powersoft

TOURING AMPLIFIER PLATFORMS

OPEN SYSTEM, OPEN MINDED.

Great sound, reliability, and power density are of paramount importance when on tour. This is why leading tour companies opt for Powersoft amplification.

Small in size and light in weight, Powersoft amplifiers are easy to haul around, yet their efficiency enables amazing amount of reliable and great sounding power. No matter if it's for stadium shows or club gigs.

Choose from a wide range of models with: 2, 4 and 8 channels; state of the art DSP and networking options; and many more useful features on the road.

Powersoft DSP technology has been optimized to be controlled by **ArmoníaPlus™**, furtherly reducing the need of cumbersome outboard gear.

GREEN AUDIO POWER



At Powersoft we take pride in our commitment to produce in a more sustainable way and in delivering more efficient products by exploiting the full potential of Class D amplification. The **PFC** technology grants extremely high efficiency values: our touring line amplifier platforms transform all the energy drawn from the mains into usable power.

The **Smart Rail Management** recycles the reactive energy coming back from the loudspeakers. Without compromising sound quality, the implementation of this technology enhances the listener's experience, whilst helping to preserve the beauty of our planet.

AUDIO NETWORK



Our high-performance amplifier platforms seamlessly integrate within networking environments.

Basic remote control is available in non DSP models through **ArmoníaPlus™**, whilst comprehensive remote control is available in DSP enabled models.

DPS+D versions are equipped with **Dante™** inputs, offering an even wider range of compatibility, monitoring and sound shaping capabilities. The whole line may be controlled by third party applications both in wired networks and through WiFi.



SAFETY AND RELIABILITY

Our Touring Line Amplifier Platforms can be trusted in the most demanding situations.

Some safety features included:

- ✓ Live impedance monitoring
- ✓ Pilot tone monitoring
- ✓ 5 independent limiter types
- ✓ Fold back audio routing
- ✓ Input & output monitoring

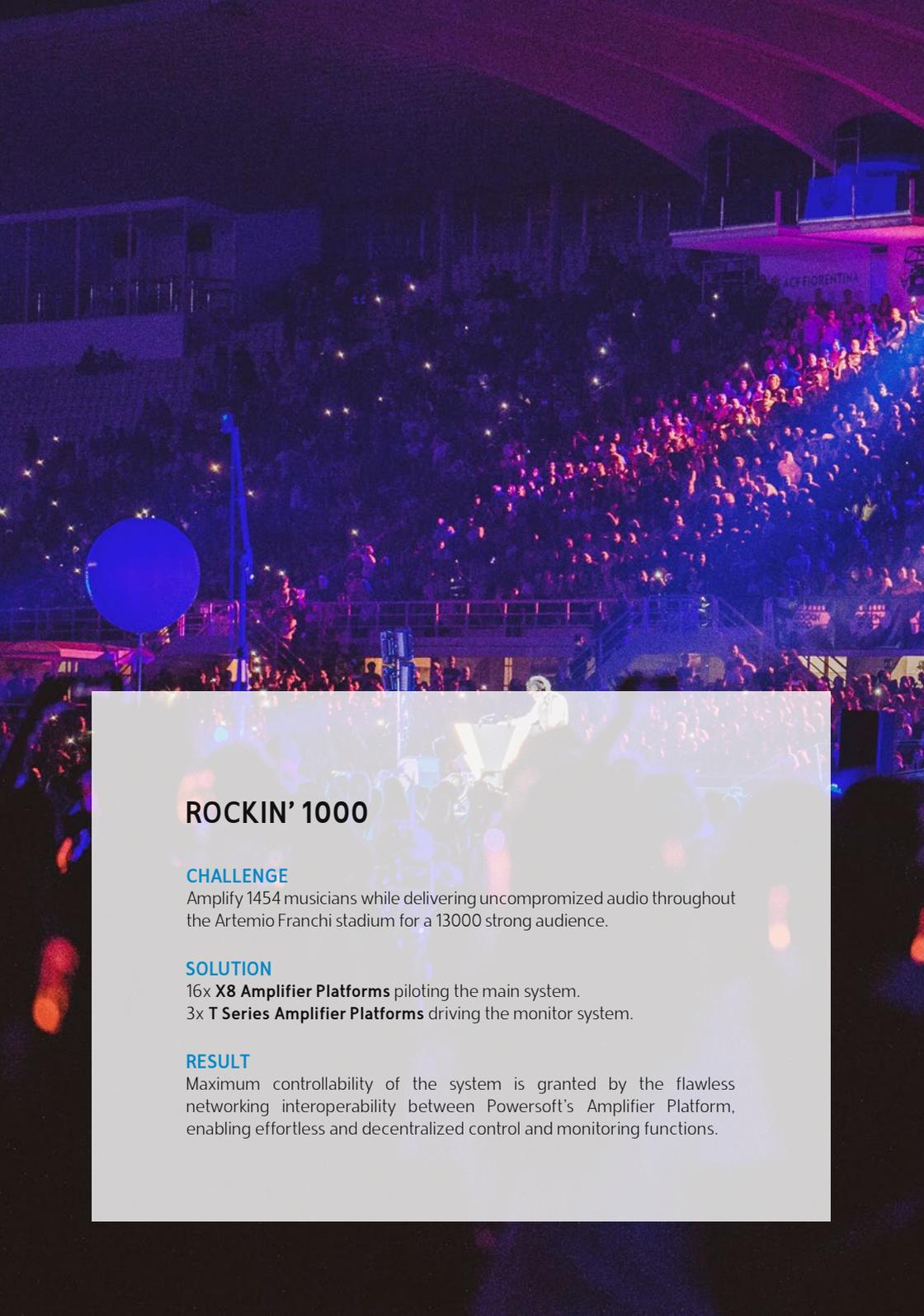


AUDIO QUALITY

Powersoft's renowned sound quality has its roots in the experience matured in more than 20 years of being at the forefront of the **Class D Revolution**.

The refined DSP has outstanding digital sound processing capabilities allowing the engineer to tailor the sound to specific needs.

By recycling the otherwise wasted reactive energy gathered from the transducer and actively controlling the **Damping Factor**, our amplifier platform delivers crisp highs and rounded, full lows even at low levels.



ROCKIN' 1000

CHALLENGE

Amplify 1454 musicians while delivering uncompromized audio throughout the Artemio Franchi stadium for a 13000 strong audience.

SOLUTION

16x **X8 Amplifier Platforms** piloting the main system.
3x **T Series Amplifier Platforms** driving the monitor system.

RESULT

Maximum controllability of the system is granted by the flawless networking interoperability between Powersoft's Amplifier Platform, enabling effortless and decentralized control and monitoring functions.

"The bottom line of Rockin'1000 is that when you are together, you can make great things happen."

Fabio Zaffagnini, Rockin' 1000 General Manager



T SERIES



POWERSOFT'S BRAND NEW WORKHORSE FOR SMALL TO MEDIUM SIZED TOURING APPLICATIONS.

The T Series is a flexible and cost effective amplifier platform loudspeaker processor with output powers ranging from 750 W to 3000W per channel.

All models deliver the same high peak voltage allowing high SPL with single 8/16 ohm cabinets. The high voltage allows power sharing between the channels for applications such as bi-amped loudspeakers, or subwoofers with passive tops.

These amplifiers feature analog inputs along side with Dante™, and AES3. The Dante™ and AES3 solutions are optimized for daisy-chained distribution of 2-channel audio to many amplifiers without the need for external switches/repeaters/splitters.



PRODUCT RANGE

MODEL	2Ω	4Ω	8Ω
T302	1500 W	1500 W	1200 W
T602	3000 W	2500 W	1300 W
T304	750 W	750 W	750 W
T604	1500 W	1500 W	1250 W



T302 - T602

T304 - T604

KEY FEATURES

- ✓ Input delay up to 2 s and output delay up to 100 ms for time alignment per channel.
- ✓ Active DampingControl™ for cable compensation.
- ✓ Compact size and high power density.
- ✓ Fully protected circuit design.
- ✓ AES3 digital inputs.
- ✓ Inbuilt Dante™ inputs.
- ✓ Power limiter (RMS, Peak, Clip, TruePower™, and Current).
- ✓ Power sharing.

VERSIONS

- ✓ Standard: Dante™, Ethernet for control and full DSP onboard.



Armonia-Plus
System Manager





MUNGO'S HI-FI SOUNDSYSTEM

CHALLENGE

Reducing the power to weight ratio of the amplifiers and processing platforms, while granting output power consistency for the heavily sustained bass notes.

SOLUTION

1x **X8 Amplifier Platform** driving the stereo mid-top enclosures.
1x **K20 Amplifier Platform** assigned to the subwoofers.

RESULT

A smaller and lighter amplifier rack with in built sound processing capabilities, providing massive amounts of sustained and controlled power.

"For the music we play you need headroom and theoretically this will take 8,000 W. Dub music requires sustained bass notes and the amps we have used in past would sometimes struggle."

Jerome Joly , Mungo's Hi Fi



X SERIES

THE PINNACLE OF POWERSOFT'S KNOWHOW IN AMPLIFIER PLATFORM DESIGN.

The X Series is no longer simply a power amplifier but a complete loudspeaker management system, including all signal processing functions. It innovates and evolves the concept of the amplification platform through the integration of a worldwide compatible three-phase powerbox, routing matrix, and a full feature DSP inside the amplifier.

Depending on the application, the X Series amplifier platform is also available with redundant Brooklyn II based Dante™ solution digital streams. It natively supports AES3, and traditional analogue inputs, providing up to four different selectable input sources per channel.

Full ArmoniaPlus™ integration and WiFi connection for remote control and monitoring on mobile devices through the dedicated webapp.



PRODUCT RANGE

MODEL	2Ω	4Ω	8Ω
X4/X8	5200 W	3000 W	1600 W



X4

X8

KEY FEATURES

- ✓ Suitable for Single Phase, Bi Phase, Three Phase operation from 85 VAC up to 440 VAC.
- ✓ Low Inrush Limiting reduces AC inrush current, removing the need for power sequencers.
- ✓ Harmful signal grouping for speaker routing.
- ✓ Hardware monitoring available for fast local diagnostic.
- ✓ Input delay up to 2 s and output delay up to 100 ms for time alignment per channel.
- ✓ Active DampingControl™ for cable compensation.
- ✓ Compact size and high power density.
- ✓ Fully protected circuit design.
- ✓ 6th generation fixed frequency switchmode output stage for high grade sound accuracy.
- ✓ AES3 digital inputs.
- ✓ Two Dante™ streams.
- ✓ TI C6000 DSP platform architecture.
- ✓ Power limiter (RMS, Peak, Clip, TruePower™, and Current).
- ✓ WiFi remote management via smartphone and tablet.

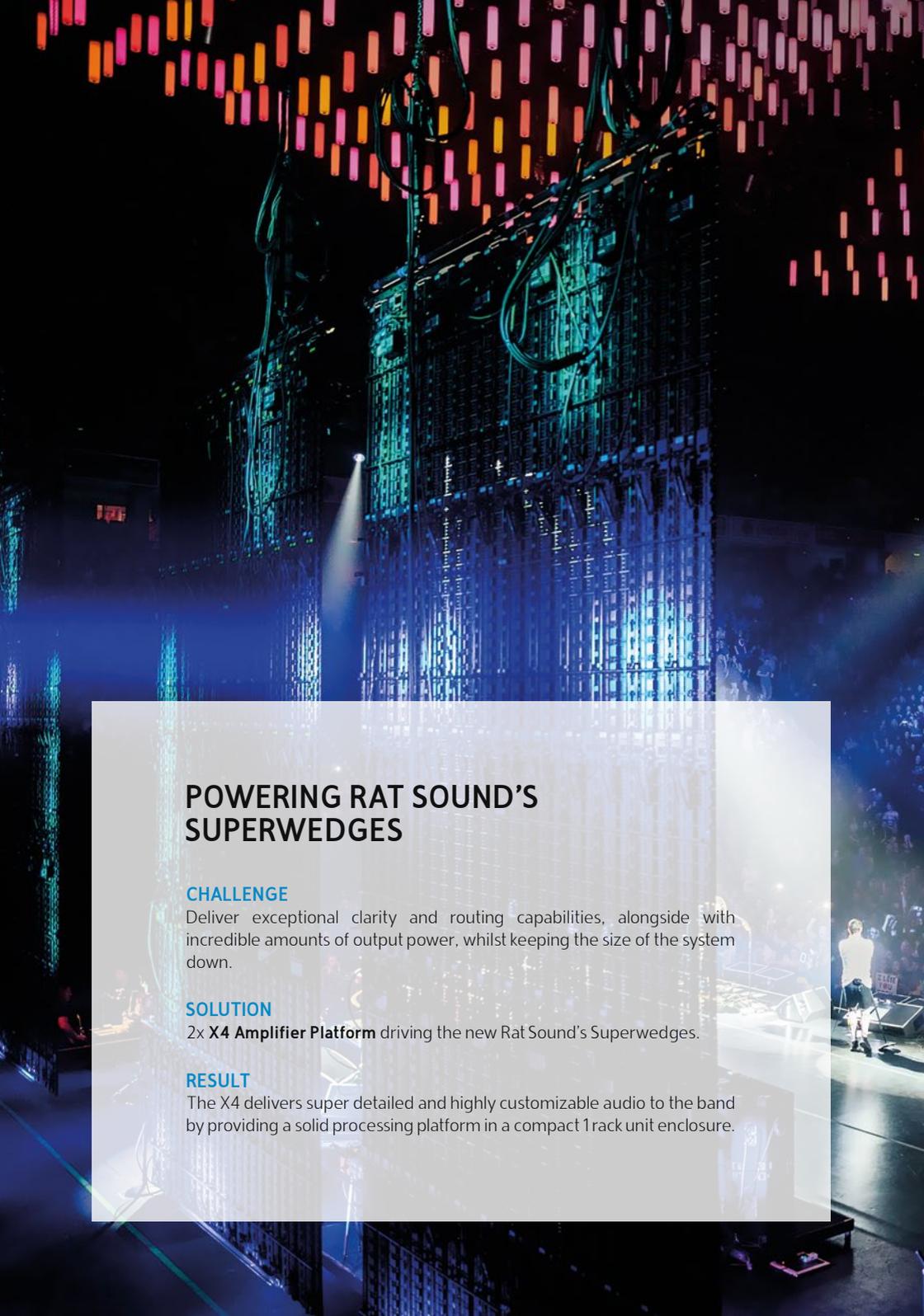
VERSIONS

- ✓ Standard: Ethernet for control and full DSP functionality.
- ✓ Option: Adds Dante™ with redundant 1000Base-T ports.



Armonía-Plus
System Manager





POWERING RAT SOUND'S SUPERWEDGES

CHALLENGE

Deliver exceptional clarity and routing capabilities, alongside with incredible amounts of output power, whilst keeping the size of the system down.

SOLUTION

2x **X4 Amplifier Platform** driving the new Rat Sound's Superwedges.

RESULT

The X4 delivers super detailed and highly customizable audio to the band by providing a solid processing platform in a compact 1 rack unit enclosure.

"Having so much power and versatility in such a compact package is truly amazing. The multiple configurations, clarify and volume levels we are able to achieve with the X4 powering the SuperWedges is breathtaking. Literally the combo at high levels will give you an adrenaline rush they are so loud and clear."

Dave Rat, Owner, Rat Sound



K SERIES

FIELD PROVEN PERFORMANCES BUILT FOR THE MOST DEMANDING TOURING CONDITIONS.

In use worldwide by leading touring and event sound companies, K Series is preferred among the top ranking system designers, sound engineers, and system techs on the road for making their lives easier, giving them reliable premier-grade power and headroom in the smallest possible package size.

KEY FEATURES

- ✓ Advanced switch-mode worldwide operating power supply.
- ✓ Power Factor Correction PFC for low mains consumption and wide mains operating range.
- ✓ Clip limiter: prevents severely clipped waveforms from reaching loudspeakers.
- ✓ VHF protections: protects the loudspeakers against non musical high frequency signals.
- ✓ Combo XLR/6.3 mm jack Neutrik input connectors with link capability.
- ✓ AES3 digital input.
- ✓ LCD interactive display.
- ✓ Analog Devices SHARC® DSP architecture.
- ✓ Interface available for MediaMatrix, Creston, AMXcontrol, Q-SYS and monitoring systems.

VERSIONS

- ✓ Standard: Analog inputs, full protection scheme.
- ✓ Option: DSP with daisy chained 100Base-TX Ethernet with redundant digital AES3 audio on the unused pairs.



Armonia+Plus
System Manager



PRODUCT RANGE

MODEL	2Ω	4Ω	8Ω
K20	9000 W	5200 W	2700 W
K10	6000 W	4000 W	2000 W
K6	3600 W	2500 W	1300 W
K3	2800 W	2600 W	1400 W
K2	1950 W	1950 W	1000 W

M SERIES

A TRUE CLASSIC OF CLASS D AMPLIFICATION, RELIABLE, AFFORDABLE AND SAFE.

The M Series represents a superb value from a premium brand with unparalleled efficiency, good for the environment and easy on the power bill. The size and the weight is an absolute minimum thanks to the 1U standard and the reduced depth of the equipment.

KEY FEATURES

- ✓ Fixed frequency switch mode output.
- ✓ Patented output filter with ripple cancellation network.
- ✓ Thermal protection: output stages operating temperature up to 75° C (167° F).
- ✓ Separate input/output EQ's with numerous filters of various types up to 48 dB/oct.
- ✓ Neutrik XLR balanced inputs with loop thru XLR and Speakon outputs connectors.
- ✓ Recessed stepped attenuators.

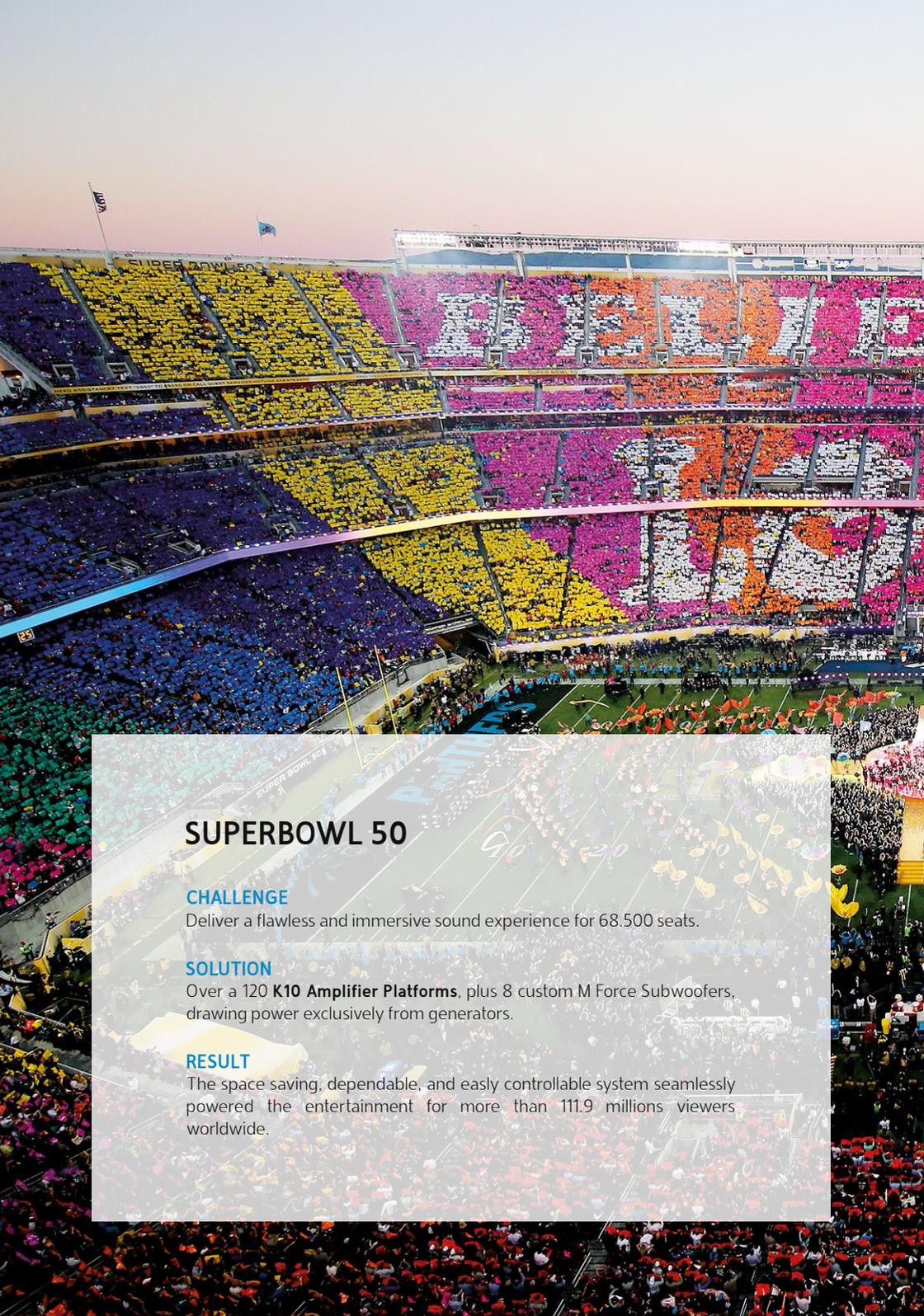
VERSIONS

- ✓ Standard: Analog inputs, full protection scheme.



PRODUCT RANGE

MODEL	4Ω	8Ω
M50Q	1250 W	750 W
M28Q	700 W	360 W
M30D	1500 W	900 W
M20D	1200 W	600 W
M14D	700 W	360 W



SUPERBOWL 50

CHALLENGE

Deliver a flawless and immersive sound experience for 68,500 seats.

SOLUTION

Over a 120 **K10 Amplifier Platforms**, plus 8 custom M Force Subwoofers, drawing power exclusively from generators.

RESULT

The space saving, dependable, and easily controllable system seamlessly powered the entertainment for more than 111.9 millions viewers worldwide.

“For events of this size, there is enormous power usage so efficiency is absolutely key. The Powersoft K10s minimize our power draw and provide maximum output efficiency.”

Kirk Powell, Systems Designer, ATK Audiotek



Photo Credit: Ezra Shaw / Getty Images

ArmoníaPlus System Manager

REMOTE CONTROL AND MONITORING OF THE FULL RANGE OF POWERSOFT PRODUCTS.

Setting up and managing complex sound systems easily through a highly intuitive user interface has become more than a popular demand – it's reality.

ArmoníaPlus has raised the bar by offering an intuitive interface for parameters adjustment, a comprehensive control over the digital audio processing and complete real-time monitoring of the system's performances, making your system safer and better sounding, especially in combination with Powersoft DSP technology.

With ArmoníaPlus, audio engineers have new and unique tools to significantly improve sonic performance and system reliability.

KEY FEATURES

- ✔ ArmoníaPlus works with the full range of Powersoft products.
- ✔ ArmoníaPlus provides total system and sound control in real-time.
- ✔ Improved EQ visualization with automatic frequency-reordered filters.
- ✔ Output EQs, delays, and a highly sophisticated group limiters.
- ✔ Input EQ in three layers with hundreds of filters for individual tuning.
- ✔ Ultimate protection: RMS, Peak, Click, True Power, and Current..
- ✔ Access Manager allows three access levels.
- ✔ Complete integration with FIR Maker (FIR custom filters).
- ✔ Fully integrated with Rational Acoustic Smaart v8.
- ✔ Supported languages: English, Italian, Spanish, Portuguese, Chinese, and Japanese.

TYPICAL ARMONÍAPLUS SETUP

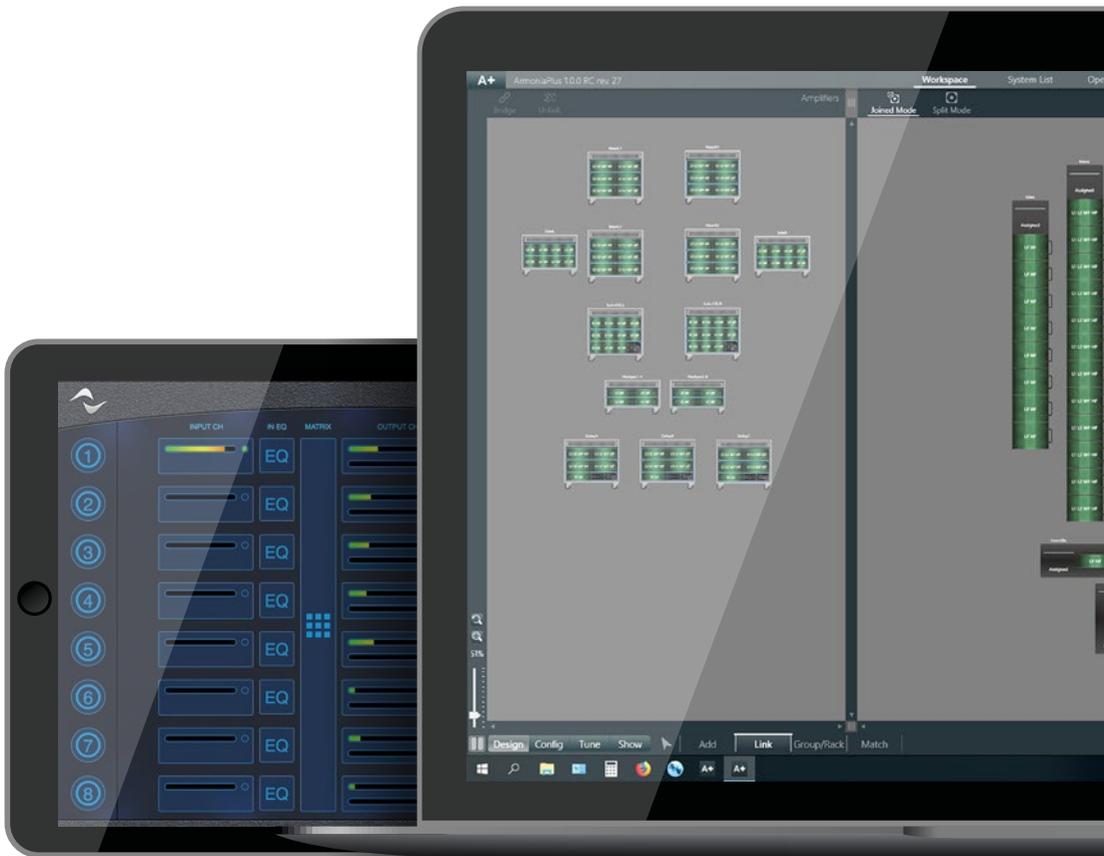
ArmoníaPlus' interface is highly customizable, granting user friendliness and flexibility in all touring applications.

OPERATOR VIEW

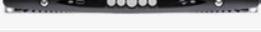
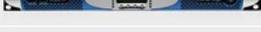
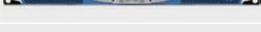
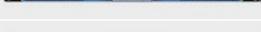
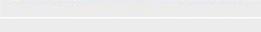
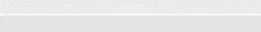
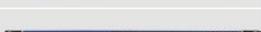
Used in configuration with the Access Manager, the Operator View enables the system administrator to tailor access credentials and limit functionality.

X SERIES FRONT PANEL WEBAPP

The X Series Front Panel webapp makes our X Series amplifier platforms remotely accessible and operable.



TECHNICAL SPECIFICATIONS CHART

		POWER @ 2Ω	POWER @ 4Ω	POWER @ 8Ω	BRIDGED @ 4Ω	BRIDGED @ 8Ω
T302		2 x 1500 W	2 x 1500 W	2 x 1200 W	1 x 3000 W	1 x 3000 W
T602		2 x 3000 W	2 x 2500 W	2 x 1300 W	1 x 6000 W	1 x 5000 W
T304		4 x 750 W	4 x 750 W	4 x 750 W	2 x 1500 W	2 x 1500 W
T604		4 x 1500 W	4 x 1500 W	4 x 1250 W	2 x 3000 W	2 x 3000 W
X8		8 x 5200 W	8 x 3000 W	8 x 1600 W	4 x 10400 W	4 x 6000 W
X4		4 x 5200 W	4 x 3000 W	4 x 1600 W	2 x 10400 W	2 x 6000 W
K20		2 x 9000 W	2 x 5200 W	2 x 2700 W	1 x 18000 W	1 x 10400 W
K10		2 x 6000 W	2 x 4000 W	4 x 1600 W	1 x 12000 W	1 x 8600 W
K6		2 x 3600 W	2 x 2500 W	8 x 1600 W	1 x 7200 W	1 x 5000 W
K3		2 x 2800 W	2 x 2600 W	4 x 1600 W	1 x 5600 W	1 x 5200 W
K2		2 x 2400 W	2 x 1950 W	8 x 1600 W	1 x 4800 W	1 x 3900 W
M50Q		--	4 x 1250 W	4 x 750 W	--	2 x 2500 W
M28Q		--	4 x 700 W	4 x 360 W	--	2 x 1400 W
M30D		--	2 x 1500 W	2 x 900 W	--	1 x 3000 W
M20D		--	2 x 1200 W	2 x 600 W	--	1 x 2400 W
M14D		--	2 x 700 W	2 x 360 W	--	1 x 1400 W

*1/8 of max output power @ 4Ω

MAX OUTPUT VOLTAGE	MAX OUTPUT CURRENT	CURRENT DRAW* 115 V	230 V	THERMAL DISSIPATION*	S/N RATIO	RU	DEPTH	WEIGHT	
145 V _{PEAK}	50 A _{PEAK}	4.8 A	2.7 A	517 BTU/h	> 110 dBA	1	405 mm / 16"	6.7 kg / 14.8 lb	T SERIES
145 V _{PEAK}	100 A _{PEAK}	7.6 A	4.3 A	731 BTU/h	> 110 dBA	1	405 mm / 16"	7.5 kg / 16.5 lb	
145 V _{PEAK}	50 A _{PEAK}	4.9 A	2.7 A	512 BTU/h	> 110 dBA	1	405 mm / 16"	7.1 kg / 15.6 lb	
145 V _{PEAK}	50 A _{PEAK}	9.8 A	5.5 A	944 BTU/h	> 110 dBA	1	405 mm / 16"	7.5 kg / 16.5 lb	
175 V _{PEAK}	130 A _{PEAK}	32 A	18 A	1946 BTU/h	> 110 dBA	2	495 mm / 19.5"	24 kg / 52.6 lb	X SERIES
175 V _{PEAK}	130 A _{PEAK}	18 A	9 A	1058 BTU/h	> 110 dBA	1	495 mm / 19.5"	15 kg / 33 lb	
225 V _{PEAK}	125 A _{PEAK}	15.8 A	7.9 A	1590 BTU/h	> 110 dBA	1	475 mm / 18.7"	12 kg / 26.5 lb	K SERIES
200 V _{PEAK}	125 A _{PEAK}	12.2 A	6.1 A	1244 BTU/h	> 110 dBA	1	475 mm / 18.7"	12 kg / 26.5 lb	
153 V _{PEAK}	125 A _{PEAK}	8.2 A	4.1 A	982 BTU/h	> 110 dBA	1	475 mm / 18.7"	12 kg / 26.5 lb	
165 V _{PEAK}	102 A _{PEAK}	8.0 A	4.0 A	836 BTU/h	> 106 dBA	1	380 mm / 15"	8 kg / 17.7 lb	
140 V _{PEAK}	102 A _{PEAK}	6.3 A	3.1 A	722 BTU/h	> 106 dBA	1	380 mm / 15"	8 kg / 17.7 lb	
135 V _{PEAK}	65 A _{PEAK}	11.6 A	5.8 A	955 BTU/h	> 110 dBA	1	358 mm / 14.1"	7.3 kg / 16 lb	
85 V _{PEAK}	60 A _{PEAK}	7.48 A	3.74 A	785 BTU/h	> 109 dBA	1	358 mm / 14.1"	7.3 kg / 16 lb	M SERIES
135 V _{PEAK}	65 A _{PEAK}	7.0 A	3.54 A	529 BTU/h	> 108 dBA	1	358 mm / 14.1"	7.3 kg / 16 lb	
116 V _{PEAK}	65 A _{PEAK}	5.0 A	2.54 A	529 BTU/h	> 107 dBA	1	358 mm / 14.1"	7.3 kg / 16 lb	
85 V _{PEAK}	65 A _{PEAK}	3.8 A	1.9 A	368 BTU/h	> 109 dBA	1	358 mm / 14.1"	7.3 kg / 16 lb	

Data subject to change without notice

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DRIVING HUMAN AUDIO EXPERIENCE