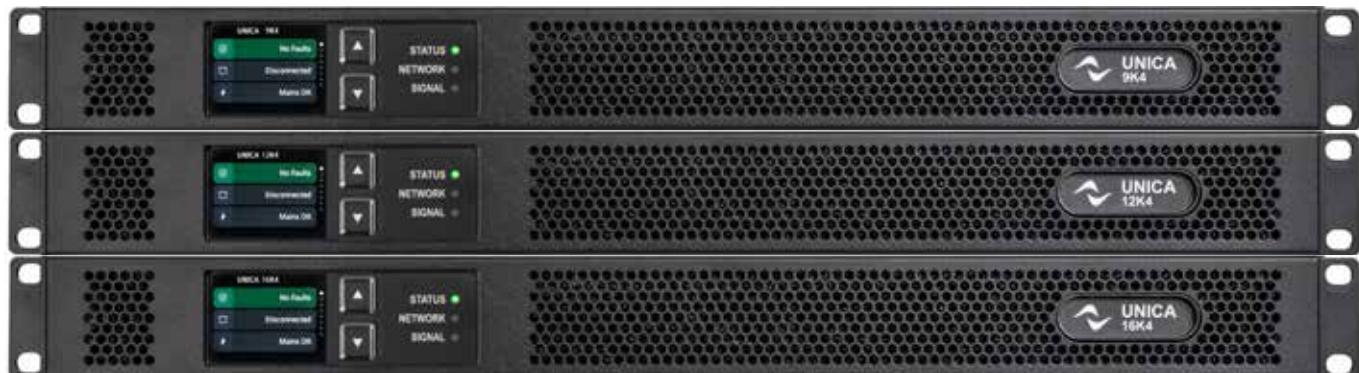


# Unica™

## 4-Channel Cloud Based Amplifier Platform



The Unica™ Series is a compact, 1RU amplifier platform developed primarily for installed applications. The 4-channel version includes 9kW, 12kW, and 16kW total power models, making Unica™ one of the most power-dense solutions available.

The output channels can drive Lo-Z and 70/100V lines seamlessly, delivering up to 5200W @ 4Ω for the 16kW model, when asymmetrically loaded. The power supply allows worldwide operation (100-240VAC), and it is equipped with the latest generation of single-stage power factor correction (PFC). The proprietary Smart Rails Management (SRM) allows the supply rails to adapt in real time to the required output voltage to

maximize efficiency and reduce idle losses.

Unica™ platform features Powersoft's next-generation DSP for state-of-the-art processing and audio performance. The three 1Gb Ethernet ports, along with the native Dante™ and AES67 support allow for different network topologies including daisy-chain and Dante™ redundant.

The front panel display allows quick access to the amplifier operating status information for local monitoring. The PoE (Power over Ethernet) input allows for short recovery time in case of mains loss, as well as testing and monitoring loudspeakers 24/7 without the need for mains power.

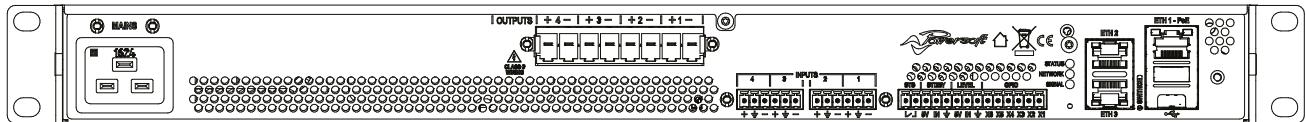
Lastly, Unica™ Series amplifiers natively support cloud connectivity for remote monitoring and control from any device anywhere in the world via Universo™, the Powersoft cloud platform interface.

- ▶ Medium to large-scale venues
- ▶ Main systems, central or distributed, subwoofers, hi-Z/lo-Z
- ▶ Mission critical applications
- ▶ Theatres, performance venues
- ▶ Houses of worship
- ▶ Convention centres
- ▶ Business centres
- ▶ Cruise ships



# Unica™

## 4-Channel Cloud Based Amplifier Platform



## Specifications

Channel Handling			
Number of output channels	4 Hi-Z or Lo-Z (bridgeable per ch. pair)		Phoenix PC 5/8-STF1-7,62
Number of input channels			
Analog	4		Phoenix MC 1,5/6-ST-3,81
Dante™/AES67	4		3 x RJ45
Audio			
Default gain	32 dB		
	9K4	12K4	16K4
Input sensitivity	3.0 V <sub>rms</sub>	11.8 dBu	3.5 V <sub>rms</sub> , 13 dBu
Output noise floor (Analog Input)	-72 dBV(A) typical		
SNR (Analog Input)	113.6 dB(A)	114.8 dB(A)	116 dB(A)
Output noise floor (Dante™/AES67 Input)	-76 dBV(A) typical		
SNR (Dante™/AES67 Input)	117.6 dB(A)	118.8 dB(A)	120 dB(A)
Max input level	>+24 dBu		
Frequency Response	20 Hz - 20 kHz +0.0 dB/-1.0 dB, @ 8 Ω		
Crosstalk	<-80dB typical, 20Hz to 1 kHz range <-60dB @20kHz typical		
Input impedance	20 kΩ balanced		
THD+N (from 0.1 W to Half Power)	< 0.05%		
SMPTE IMD (from 0.1 W to Half Power)	< 0.01%		
Damping factor	>2500 20Hz to 500 Hz		
DSP			
AD converters	24 Bit Tandem™ @ 48 kHz 130 dB(A) Dynamic Range - 0.00005 % THD+N		
DA converters	24 Bit Tandem™ @ 48 kHz 132 dB(A) Dynamic Range - 0.00003 % THD+N		
Latency	2.6 ms analog Input to amplifier Output		
Onboard memory	Store and recall up to 50 amplifier snapshot		
Delay	2 s (input) + 100 ms (output) for time alignment		
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass		
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)		
Limiters	RMS voltage, RMS current, Peak limiter, TruePower™, Dynamic EQ		
Damping control	Active DampingControl™		
Loudspeaker diagnostic	Pilot tone monitoring, average impedance monitoring, load impedance measurement		
Startup time	<10 s <0.5 s (with PoE backup power)		
Construction			
Dimensions	489 x 400 x 44.3 (WxDxH) mm 19.3 x 15.8 x 1.7 (WxDxH) in		
Weight	8 Kg (17.6 lb)		

Data subject to change without notice.

Output Stage		9K4	12K4	16K4	
Commercial total rated power		9000	12000	16000	W
per channel @ 100 V (symmetrical)*		2250	3000	4000	W
per channel @ 70 V (symmetrical)*		2000	2500	3000	W
per channel @ 16 Ω (symmetrical)*		900	1100	1300	W
per channel @ 8 Ω (symmetrical)*		1600	2000	2500	W
per channel @ 4 Ω (symmetrical)*		2250	3000	4000	W
per channel @ 2 Ω (symmetrical)*		2000	3000	4000	W
per bridged pair @ 8 Ω (symmetrical)*		4500	6000	8000	W
per bridged pair @ 4 Ω (symmetrical)*		4000	6000	8000	W
per channel @ 100 V (asymmetrical)**		3200	4000	5000	W
per channel @ 70 V (asymmetrical)**		2500	3000	3500	W
per channel @ 16 Ω (asymmetrical)**		900	1100	1400	W
per channel @ 8 Ω (asymmetrical)**		1600	2000	2700	W
per channel @ 4 Ω (asymmetrical)**		3200	4000	5200	W
per channel @ 2 Ω (asymmetrical)**		2500	3500	4500	W
Maximum unclipped output voltage		170	195	220	V <sub>peak</sub>
Maximum output current		60	70	80	A <sub>peak</sub>
*: Available by driving and loading all the channels symmetrically. **: Maximum power-sharing capacity per channel.					
Power & Thermal		9K4	12K4	16K4	
@ 115 V	Power	55	55	55	W
	Idle Current Draw	0.65	0.65	0.65	A <sub>rms</sub>
	Thermal Loss	190	190	190	BTU/h
1/8 Power @ 4Ω	Power	1463	1951	2600	W
	Current Draw	13.1	17.5	23.2	A <sub>rms</sub>
	Thermal Loss	1147	1528	2046	BTU/h
@ 230 V	Power	62	62	62	W
	Idle Current Draw	0.52	0.52	0.52	A <sub>rms</sub>
	Thermal Loss	211	211	211	BTU/h
1/8 Power @ 4Ω	Power	1450	1940	2550	W
	Current Draw	6.6	8.8	11.6	A <sub>rms</sub>
	Thermal Loss	1108	1500	1875	BTU/h
Power supply Universal regulated switch mode with PFC and SRM					
Nominal voltage 100-240 VAC @ 50-60 Hz (400 VAC surge)					
Operating Voltage 80-265 VAC @ 50-60 Hz					
AC Mains connector IEC C20 inlet (20 A max) region-specific power cord provided					
Eco Mode consumption 35 W					
Standby consumption 20 W Typical, CPU fully functional					
PoE Input Class 4 or higher					
Networking					
Network 3 x Gigabit Ethernet ports RJ45 connectors					
Network modes Switched Mode, Split-Redundant Mode					
Remote interface ArmoníaPlus™, Universo™					

