

■ UTA DSP Series Specifications

SPECIFICATIONS		UTA902DSP	UTA1802DSP	UTA1804DSP
Output power (1kHz, 20ms burst THD+N = 1%)	8Ω Stereo	2x500W	2x1400W	4x1400W
	4Ω Stereo	2x900W	2x1800W	4x1800W
	2Ω Stereo	2x900W	/	/
	8Ω Bridge	1x1400W	/	/
	4Ω Bridge	1x1800W	/	/
A-Guard Protection System		DC Protection, Short circuit protection, Smart overheat management, Overheat protection, Output overload protection, Soft startup protection, Limiter protection		
DSP processing	Sampling rate	48kHz/24bit		
	Input	1: Noise Gate, Volume, Phase, Mute 2: Input EQ: 15 bands EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 3: Input delay: 20ms per channel		
	User	1: Volume, Phase, Mute 2: 10-segment PEQ		
	Output	1: Output EQ: 15 band EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 2: Output delay: 20ms Per channel 3: Compressor and Limiter 4: Volume, Phase, Mute 5: FIR 512 Taps per channel		
Analogue Input		2x analogue	2x analogue	4x analogue
USB control port		USB-B		
UDP/IP network control port		RJ45x1		
Input Connectors		Male XLR & Female XLR		
Output Connectors		Speakon+Binding Post	Speakon+Binding Post	Speakon
Input Impedance	Balanced	≥20kΩ		
	Unbalanced	≥10kΩ		
Maximum input voltage		≥22dBu		
Gain		32dB	38dB	
Frequency response(1W 8Ω stereo)		20Hz-20kHz(±1dB)		
Crosstalk(1kHz, Rated power 8Ω A weighted)		≥70dB		
S/N Ratio(Rated power 8Ω, A weighted)		≥100dB		
Damping Factor(1kHz & 8Ω)		≥500		
Intermodulation Distortion (60Hz:7kHz=4:1, half power)		≤0.1%		
THD+N(1kHz, 8Ω half power A weighted)		≤0.1%		
Output circuitry		Class D		
Power Supply		100-240V~(±10%, 50/60Hz), PFC		
Power Consumption(1/8 output power 4Ω)		260W	607W	1210W
Rack space		2U		
Cooling		Front to back venting, mandatory cooling		
Dimension(W×H×D)		483×88×248mm	483×88×404mm	
Net Weight		5.0kg	7.5kg	10.5kg

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AUDIOCENTER

Dynamic Audio Solutions

BrainCore™
Technology Inside



UTA-DSP series

A Super Reliable & Durable Amplifier
with
Powerful Digital Signal Processing Capabilities





Cost Less, Get More Value

Save on your crossover costs with easy-to-use DSP settings via the LCD screen. Achieve accurate low-cut and high-cut with easy-to-use DSP settings via the LCD screen.



Simple and Easy to Use

An interesting and user-friendly experience with the easy call-by-screen feature. Play it and enjoy it.



Flexible Usage

A 500W full-range power amplifier can easily bridge to 1400W for subwoofers.

Portable



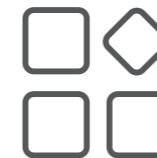
Ideal for Mobile Applications

Compact size and lightweight.



Effortlessly Manage and Protect Your Sound System with easy-to-use DSP Settings and Data Storage

Protect your investment and save time. Ensure high-quality sound and prevent speaker damage.



Modular Design Engineered from Germany

The modular design engineered from Germany makes your amplifier more stable, reliable, and durable, while also making after-sales service simpler, faster, and more cost-effective.



Class D Circuitry with PFC

A full-voltage PFC adaptive system and Class D circuitry with over 90% efficiency effortlessly eliminate the troubles caused by unstable power supply.



Powerful DSP Chip With FIR

The powerful DSP chip, equipped with FIR capabilities, can significantly enhance audio performance. Meanwhile, the professional DSP software and the powerful DSP chip empower professionals to easily handle fixed installation systems.

Manufactured to German Precision Standards, Durable and Long-lasting

Powerful DSP Processor
Equipped with powerful IIR infinite impulse response filters and new FIR finite impulse response filters, the UTA-DSP Series can achieve precise audio adjustment and optimization.

Modular Amplifier Modules
The UTA-DSP Series is built with sturdy mechanical processing structure. With efficient tunnel-style cooling, the temperature rise can be controlled within 30°C.

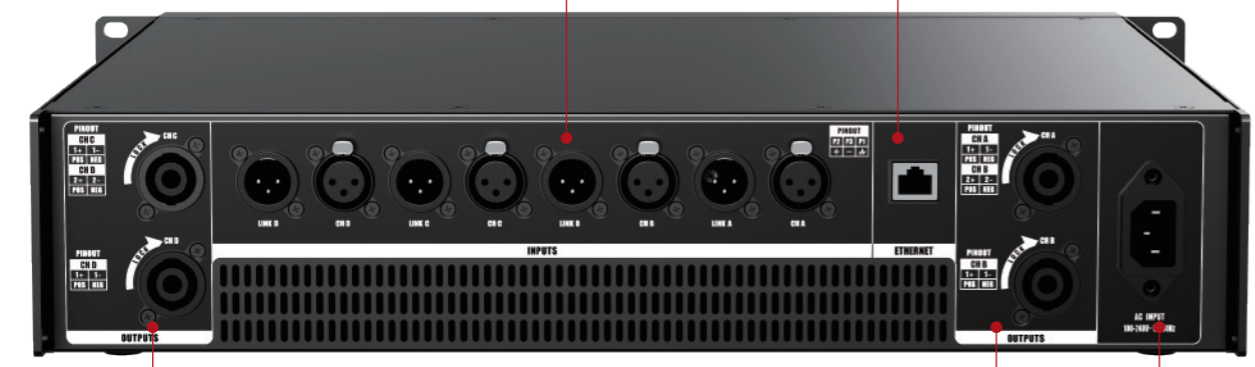
Lightweight Design
Amplifier is lightweight (about 10kg), facilitating portability and installation, providing users with more convenience and flexibility.



2-inch TFT Display
Quick and easy menu settings and display of all amplifier information

Display Control Knob
Quick selection of function settings

USB Port
The UTA-DSP Series supports driver-free single-device connection via the front-panel USB interface, allowing users to flexibly transfer presets and device files, and update firmware from the driver to the DSP amplifier, enabling extremely quick reconfiguration of the power amplifier.



Digital Analog Hybrid Input
Balanced Analog Signal Input

Network Section
UDP/IP Network Cable Connector

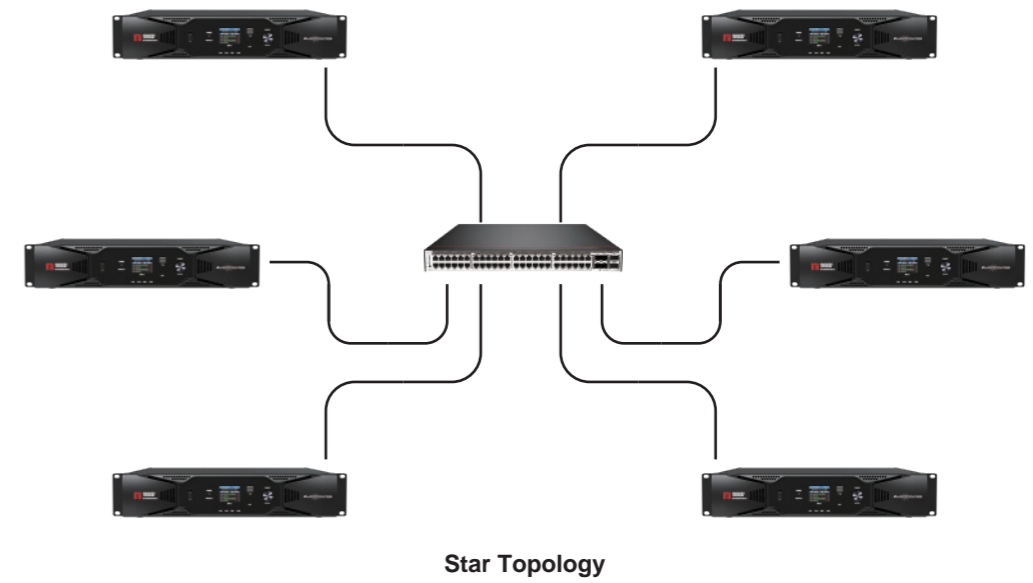
Output
Compatible with four-pin Speakon

Output
Compatible with four-pin Speakon

Power connector

Audio Management Center for the Fixed Installation Market

- ◆ **Centralized Management & Maintenance**
Equipped with UDP network connectivity, it enables batch configuration and firmware updates, allowing unified software updates, parameter configuration and maintenance to enhance operational and maintenance efficiency.
- ◆ **Network Control**
Realizes remote control and real-time adjustment of the IP network status of audio devices, improving the convenience and efficiency of debugging.
- ◆ **Preset Management**
The UTA-DSP Series amplifier offers two preset management modes: channel preset management and system preset management.



- ◆ **Powerful DSP Processing**
 - ◎ **IIR Filters**
Offering a variety of Bessel, Butterworth, Linkwitz-Riley filters, supporting high-pass, low-pass, and parametric equalization, easily achieving -48dB/octave adjustments and phase control.
 - ◎ **FIR Filters**
Enhancing the impact of audio, ensuring a more dynamic and impactful sound experience. Linear phase response retains the original transient characteristics of the audio signal, resulting in finer and more precise notes.
- ◆ **Perfect Integration of BrainCore™ Technology**
Perfectly integrating BrainCore™ technology, providing precise digital processing through superior Limita™ processing technology, ensuring the system operates safely and reliably.
- ◆ **High-Efficiency Class D Power Amplifier**
The UTA-DSP Series utilizes Class D amplification technology, with an efficiency exceeding 90%, which significantly reduces energy loss during power conversion. This not only decreases heat generation but also lowers energy consumption while maintaining excellent sound quality.
- ◆ **Global Universal Power Supply & PFC Technology**
With 100-240V global voltage auto-adaptation and PFC stabilized power supply, it supports plug-and-play functionality, ensuring energy efficiency and stability.
- ◆ **Intelligent Silent Heat Dissipation**
Built-in stepless speed regulation fan that adjusts speed automatically, providing quiet and undisturbed operation.

UTA902DSP



Output power (1kHz, 20ms burst THD+N = 1%)	2x500w @8Ω Stereo 2x900w @4Ω Stereo 2x900w @2Ω Stereo 1x1400w @8Ω Bridge 1x1800w @4Ω Bridge
A-Guard Protection System	DC Protection, Short circuit protection, Smart overheat management, Overheat protection, Output overload protection, Soft startup protection, Limiter protection
DSP processing	Sampling rate: 48kHz/24bit
	Input: 1: Noise Gate, Volume, Phase, Mute 2: Input EQ: 15 bands EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 3: Input delay: 20ms per channel
	User: 1: Volume, Phase, Mute 2: 10-segment PEQ
	Output: 1: Output EQ: 15 band EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 2: Output delay: 20ms Per channel 3: Compressor and Limiter 4: Volume, Phase, Mute 5: FIR 512Taps per channel
Analogue Input	2x analogue
USB control port	USB-B
UDP/IP network control port	RJ45 x1
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon+Binding Post
Input Impedance	≥20kΩ (Balanced); ≥10kΩ (Unbalanced)
Maximum input voltage	≥22dBu
Gain	32dBu
Frequency response (1W 8Ω stereo)	20Hz-20kHz (±1dB)
Crosstalk (1kHz, Rated power 8Ω A weighted)	≥70dB
S/N Ratio (Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz & 8Ω)	≥500
Intermodulation Distortion (60Hz:7kHz=4:1, half power)	≤0.1%
THD+N (1kHz, 8Ω half power A weighted)	≤0.1%
Output circuitry	Class D
Power Supply	100-240V~(±10%, 50/60Hz), PFC
Power Consumption (1/8 output power 4Ω)	260W
Rack space	2U
Cooling	Front to back venting, mandatory cooling
Dimension (W×H×D)	483x88x248mm
Net Weight	5.0kg



UTA1802DSP



Output power (1kHz, 20ms burst THD+N = 1%)	2x1400w @8Ω Stereo 2x1800w @4Ω Stereo
A-Guard Protection System	DC Protection, Short circuit protection, Smart overheat management, Overheat protection, Output overload protection, Soft startup protection, Limiter protection
DSP processing	Sampling rate: 48kHz/24bit
	Input: 1: Noise Gate, Volume, Phase, Mute 2: Input EQ: 15 bands EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 3: Input delay: 20ms per channel
	User: 1: Volume, Phase, Mute 2: 10-segment PEQ
	Output: 1: Output EQ: 15 band EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 2: Output delay: 20ms Per channel 3: Compressor and Limiter 4: Volume, Phase, Mute 5: FIR 512Taps per channel
Analogue Input	2x analogue
USB control port	USB-B
UDP/IP network control port	RJ45 x1
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon+Binding Post
Input Impedance	≥20kΩ (Balanced); ≥10kΩ (Unbalanced)
Maximum input voltage	≥22dBu
Gain	38dBu
Frequency response (1W 8Ω stereo)	20Hz-20kHz (±1dB)
Crosstalk (1kHz, Rated power 8Ω A weighted)	≥70dB
S/N Ratio (Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz & 8Ω)	≥500
Intermodulation Distortion (60Hz:7kHz=4:1, half power)	≤0.1%
THD+N (1kHz, 8Ω half power A weighted)	≤0.1%
Output circuitry	Class D
Power Supply	100-240V~(±10%, 50/60Hz), PFC
Power Consumption (1/8 output power 4Ω)	607W
Rack space	2U
Cooling	Front to back venting, mandatory cooling
Dimension (W×H×D)	483x88x404mm
Net Weight	7.5kg



UTA1804DSP



Output power (1kHz, 20ms burst THD+N = 1%)	4x1400w @8Ω Stereo 4x1800w @4Ω Stereo
A-Guard Protection System	DC Protection, Short circuit protection, Smart overheat management, Overheat protection, Output overload protection, Soft startup protection, Limiter protection
DSP processing	Sampling rate: 48kHz/24bit
	Input: 1: Noise Gate, Volume, Phase, Mute 2: Input EQ: 15 bands EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 3: Input delay: 20ms per channel
	User: 1: Volume, Phase, Mute 2: 10-segment PEQ
	Output: 1: Output EQ: 15 band EQ + HPF/LPF (Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct) 2: Output delay: 20ms Per channel 3: Compressor and Limiter 4: Volume, Phase, Mute 5: FIR 512Taps per channel
Analogue Input	4x analogue
USB control port	USB-B
UDP/IP network control port	RJ45 x1
Input Connectors	Male XLR & Female XLR
Output Connectors	Speakon
Input Impedance	≥20kΩ (Balanced); ≥10kΩ (Unbalanced)
Maximum input voltage	≥22dBu
Gain	38dBu
Frequency response (1W 8Ω stereo)	20Hz-20kHz (±1dB)
Crosstalk (1kHz, Rated power 8Ω A weighted)	≥70dB
S/N Ratio (Rated power 8Ω, A weighted)	≥100dB
Damping Factor (1kHz & 8Ω)	≥500
Intermodulation Distortion (60Hz:7kHz=4:1, half power)	≤0.1%
THD+N (1kHz, 8Ω half power A weighted)	≤0.1%
Output circuitry	Class D
Power Supply	100-240V~(±10%, 50/60Hz), PFC
Power Consumption (1/8 output power 4Ω)	1210W
Rack space	2U
Cooling	Front to back venting, mandatory cooling
Dimension (W×H×D)	483x88x404mm
Net Weight	10.5kg

