

SoundCoreHero Ultimate

Data sheet

Overview

SoundCoreHero Ultimate is a flagship-grade audio engine combining a player, DSP processor, and automation controller for the most demanding Dante and AES67 Audio-over-IP (AoIP) infrastructures. It is purpose-built for mission-critical, large-scale installations that demand maximum processing power, scalability, and operational reliability. Supporting between 128 and 512 bi-directional channels, SoundCoreHero Ultimate offers exceptional signal density and independent zone management. Its dual redundant power supplies, hardware-based clock synchronization, and robust system architecture ensure uncompromising uptime. With its integrated web-based management interface and support for open control standards, SoundCoreHero Ultimate delivers complete oversight and confidence for professional environments where audio performance is non-negotiable.

Key features

- **Integrated playback & announcements**
Players and announcements are independent modules; you can create thousands of them, no matter how many SoundCoreHero channels you have. You can create file-based and directory-based playlists with automatic scanning. You can also receive streams within the player.
- **Complete audio DSP**
Professional-grade audio processing with gate, parametric EQs, compressors, duckers, delay, limiters and ability to create presets. Everything built-in- no need for costly external processors.
- **Advanced automation & scheduling**
Your system does the work for you – maximize automation. Using a Schedule, Control Actions buttons or GPIO over IP (e.g., sensors, buttons, etc.) the system will automatically turn on the player, play announcements or advertising spots, switch sources, or trigger any pre-defined action.
- **Web Control & monitoring**
Total control from any device- PC, tablet, or smartphone. No extra software, instant access, and secure operation wherever you are.
- **Life solo monitoring**
Monitor any channel in real-time directly from a web browser.
- **User management**
Flexible user roles with the ability to create and assign personalized roles to multiple users.
- **Flexible audio channel expansion - you can purchase a single channel**
Start with 128 x 128 channels, then scale to 256 x 256 and up to 512 x 512 in a single 1U chassis. The Ultimate tier provides the highest channel density on the market, simplifying the largest and most complex deployments. Pay only for what you need — expand your system at your own pace. Add new channels and features anytime, without buying large packages. With SoundCoreHero, you can unlock single channels as your projects grow, giving you true freedom and flexibility.
- **Dante/AES67 Network**
Native Dante and AES67 support- plug seamlessly into existing systems and stay fully compatible with modern audio networks. Your installation is future-ready.
- **System integration**
Integration with Crestron, Extron, AMX, RTI, Control4, and more control platforms via standard network protocols and API.
- **Control systems**
SoundCoreHero acts as a central controller for your entire AV environment. Integrate and control third-party devices directly using protocols—TCP, UDP, HTTP, or Modbus TCP.
- **Mission-critical redundancy as standard**
Engineered for zero-downtime environments. Dual hot-swappable 400 W Platinum power supplies and an integrated RAID1 storage array come standard, ensuring your system remains fully operational.
- **Hardware-based clock synchronization**
SCH Ultimate includes an integrated Dante hardware clock for ultra-low latency and rock-solid, sample-accurate synchronization across all network devices, critical for demanding, large-scale audio systems.
- **Lifetime warranty & updates**
An active subscription provides a lifetime hardware warranty and continuous access to all new software features.

**One device.
Total control.**

 Dante Ready™

AES67

Applications

Hotels, resorts & spa centers
Convention centers
and exhibition halls
Event halls, theaters,
and meeting rooms
Theme parks and
entertainment centers
Airports, train stations,
and transport hubs
Sports arenas and stadiums

**Do you need
help?**

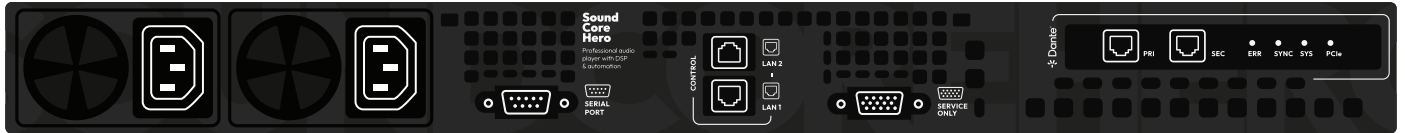
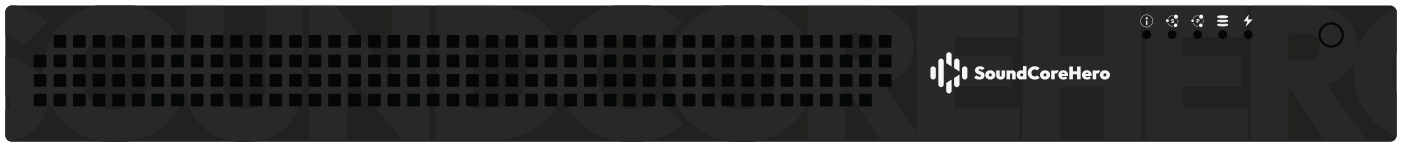
→ Knowledge base & FAQ:

SoundCoreHero.com/support

→ Get technical support

support@SoundCoreHero.com





Audio specifications

Dante audio channels @48k	128 x 128, 256 x 256, 512 x 512
Dante audio channels @96k	128 x 128, 256 x 256
Dante audio channels @192k	128 x 128
Network audio latency	0.25 - 4 ms (Dante, hardware clock as standard)
Frequency response	20 Hz - 20 kHz (± 0.1 dB)
Distortion (THD+N)	< 0.002% (@20 Hz - 20 kHz, -1dBFS) < 0.006% (@20 Hz - 20 kHz, -10dBFS) < 0.02% (@20 Hz - 20 kHz, -20dBFS)
Supported audio formats	WAV, MP3, AAC, FLAC, OGG/Vorbis, MP4 (audio), AIFF, ALAC, WebM (audio), CAF, MKV (audio), ADPCM, MP2, MP1

DSP

Digital signal processor	64-bit floating-point audio processing
I/O routing	512 x 512 routing and summation matrix
Available modules	Gain, noise gate, ducker, compressor, EQ, limiter, delay
Mixer	Built-in DSP mixer with independent mixes and levels per zone

Connectors & interfaces

Connector	Type / Interface	Primary Function
Power (redundant)	2x IEC C14 Power socket	Main power input for the device (100 - 240 VAC)
Control	2x RJ45 (1Gb Ethernet)	Network control
Dante	2x RJ45 (1Gb Ethernet)	Primary and secondary ports for Dante/AES67 audio-over-IP Operation mode: switch, redundant
Serial Control	RS-232	Integration with third-party control systems (e.g., AV automation, BMS, lighting)

Physical & environmental

Dimensions (W x H x D)	437 mm x 43 mm x 429 mm (17.2" x 1.7" x 16.9")
NET weight	17 kg (37,5 lbs)
Form factor	1U rackmount
Power supply	Dual redundant 400 W Platinum hot-swappable PSUs
Power consumption	80 W - 180 W
Heat dissipation	~275-615 BTU/hr
Operating temperature	5°C to 35°C (41°F to 95°F)
Internal storage	800 GB RAID1
Cooling system	4x 40 x 56 mm PWM fans, front-to-rear airflow

Control & monitoring

Primary Control	Web UI (accessible from PC, tablet, smartphone)
Third-Party Integration	Flexible integration with any control system via a documented API

Product models & specifications

SKU	Name	Description
SCH-ULT-128	SoundCoreHero Ultimate 128	<ul style="list-style-type: none"> Max Channels: 128 x 128@48k Dante/AES67 Storage: 800 GB RAID1 PSU: Redundant Chassis: 19" Rack (1U) Warranty: 12-month
SCH-ULT-256	SoundCoreHero Ultimate 256	<ul style="list-style-type: none"> Max Channels: 256 x 256@48k Dante/AES67 Storage: 800 GB RAID1 PSU: Redundant Chassis: 19" Rack (1U) Warranty: 12-month
SCH-ULT-512	SoundCoreHero Ultimate 512	<ul style="list-style-type: none"> Max Channels: 512 x 512@48k Dante/AES67 Storage: 800 GB RAID1 PSU: Redundant Chassis: 19" Rack (1U) Warranty: 12-month